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THE

American Museum of Natural History

CENTRAL PARK, NEW YORK CITY.

(77th Street and Central Park, West.)



ANNUAL REPORT OF THE PRESIDENT,
TREASURER'S REPORT, LIST OF ACCESSIONS,
CONSTITUTION,
BY-LAWS AND LIST OF MEMBERS
FOR THE YEAR 1897.

PRINTED FOR THE MUSEUM.

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OF THE

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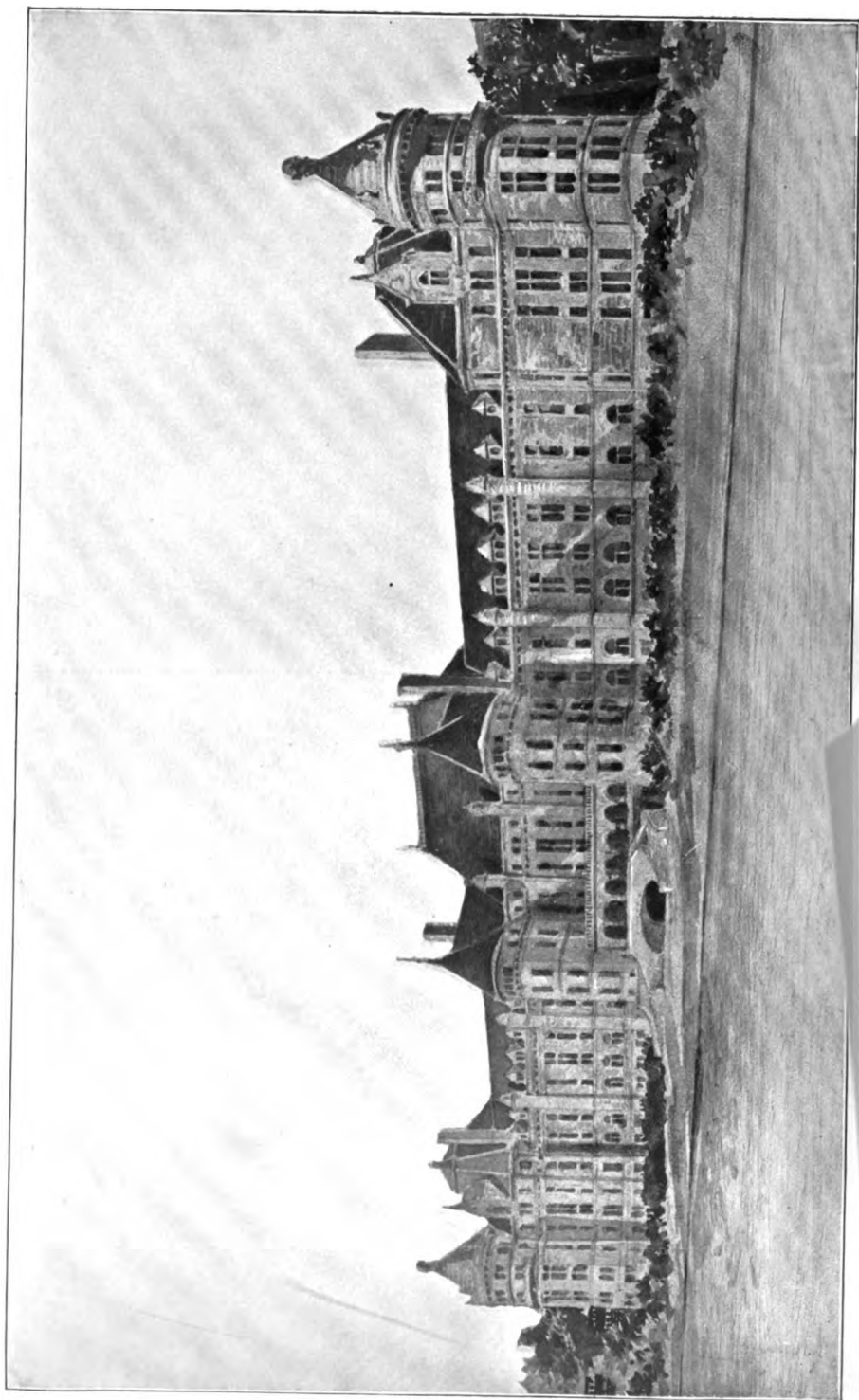
GIFT OF

the Museum.

Received

June 8, 1898.

**THE
AMERICAN MUSEUM OF NATURAL HISTORY.**



MUSEUM, SEVENTY-SEVENTH STREET.

THE
AMERICAN MUSEUM OF NATURAL
HISTORY,

CENTRAL PARK, NEW YORK CITY.

(77th Street and Central Park, West.)

29th.

ANNUAL REPORT OF THE PRESIDENT,
TREASURER'S REPORT, LIST OF ACCESSIONS,
CONSTITUTION,
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FOR THE YEAR 1897.



NEW YORK:
PRINTED FOR THE MUSEUM.

1898.

WM. C. MARTIN PRINTING HOUSE,
NO. 111 JOHN STREET
NEW YORK

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JUN 8 1898
PEABODY MUSEUM.

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LIBRARIAN.

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SUPERINTENDENT OF BUILDING.

WILLIAM WALLACE.

This map illustrates the distribution of fur seals in the North Pacific Ocean. The shaded regions represent the range of the animals, with labels indicating specific populations or areas: 'TUNGUS', 'KORIAK', and 'YAGUT'. The map covers the Bering Sea, Sea of Okhotsk, and the Aleutian Islands. Key geographical features include the Kamchatka Peninsula, the Kuril Islands, and the Japanese archipelago. Latitude and longitude lines are marked, providing a geographical context for the distribution.

TWENTY-NINTH ANNUAL REPORT.

To the Trustees of the American Museum of Natural History :

I have the honor to present the following brief statement of the work of the Museum for the year ending Dec. 31, 1897:

FINANCES.—Your attention is called to the fact that the expenditures have been kept within the limits of the appropriations made at the annual meeting.

Endowment account has a credit balance of \$3,192.06, after meeting the deficit in the receipts for maintenance during the year. I am enabled to report this very gratifying result through the generous assistance accorded by the Trustees at the annual meeting, on which occasion \$25,750 was subscribed to liquidate the Dr. balance at the close of 1896, and the estimated deficiency in the income for 1897.

It will be seen that the amount received from the city is not sufficient to maintain the Museum.

The following summary of the Treasurer's report shows the total receipts and disbursements:

MAINTENANCE.

Receipts from the City	\$94,998	18
“ “ other sources	12,040	26
Transfer from Endowment Account to balance deficit, Jan. 1, 1897.....	3,406	23
Transfer from Endowment Account to balance deficit, Dec. 31, 1897.....	1,510	01
	<u>\$111,954</u>	<u>68</u>
Dr. Balance, Jan. 1, 1897.....	\$3,406	23
Disbursements.....	108,548	45
	<u>\$111,954</u>	<u>68</u>

ENDOWMENT.

Receipts from all sources.		\$69,548 80
Balance Jan. 1, 1897.	\$7,258 10	
Transfer to Maintenance Account to balance deficit, Jan. 1, 1897.	3,406 23	
Disbursements for the increase and development of the collections.	54,182 40	
Transfer to Maintenance Account to balance deficit, Dec. 31, 1897.	<u>1,510 01</u>	
	\$66,356 74	
Cash surplus carried over to Jan. 1, 1897.	<u>3,192 06</u>	<u>\$69,548 80</u>

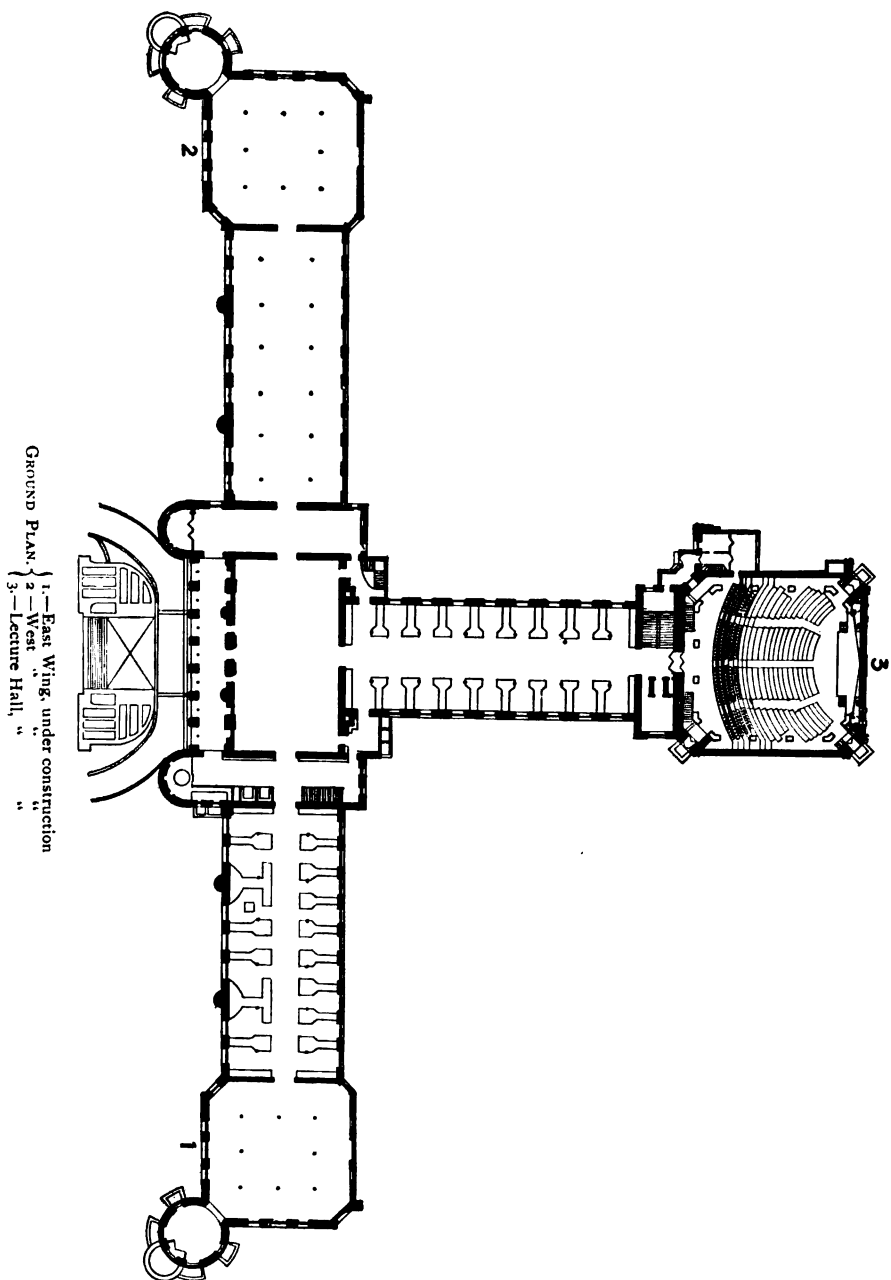
ADDITIONS TO THE BUILDING.—Early in April the State Legislature enacted a law empowering the municipal authorities to erect a new lecture hall and an addition to complete the corner of the west wing. Plans for these structures were promptly prepared, and received the approval of the Trustees, the Commissioners of Parks, and the Board of Estimate and Apportionment; the latter at the same time authorized the issue of the bonds as provided in the Act.

Within a brief time contracts were let for the structure to complete the east wing, for the erection of the addition to complete the west wing, and for the construction of the large lecture hall at the north end of the old building.

Rapid progress is making on all of these buildings, and unless some unforeseen delay prevents it is expected that the halls will be ready for cases and fittings during 1899. The new lecture hall may be ready for occupancy late in the coming autumn, and will have a seating capacity for fifteen hundred persons. This hall will provide ample accommodation for the large numbers which at times heretofore have been unable to gain admission to the courses of free lectures to the public.

Attention is called to the diagram inserted in this report which exhibits the two end structures and the new lecture hall at the north end.

With these additions the south front of the Museum will be completed in accordance with the original plans adopted at the time the first structure was erected.



ACCESSIONS.—The list of accessions published in the later pages of this report is an evidence of the growing interest felt in this Museum by our citizens. The donations were numerous, and represent many valuable additions to the collections and Library.

I desire to record our appreciation of the gift made by Mr. Wm. F. Havemeyer of a painting and four studies of some of the important works of Wm. Bradford. These have been hung in the Library, with the large painting of the "English Expedition in Search of Sir John Franklin," given to the Museum in 1892 by Mr. Havemeyer and a number of his friends. The celebrated work owned by C. P. Huntington, and painted by the same artist, entitled "The Polaris in the Ice at Thank God Harbor," also hangs in the Library.

Mr. James A. Bailey has given an Indian Elephant, two Camels and two Kangaroos, to the Department of Vertebrate Zoölogy. Our thanks are also due to the Commissioners of Parks for a number of animals which died at the Menagerie and at the Aquarium.

Mr. James M. Constable and your President had the pleasure of securing for the same department three excellent specimens of Mountain Sheep, the types of a new species described in the present volume of the Bulletin.

Gifts of rare and very desirable collections of mammals, birds and reptiles were received from Dr. Edgar A. Mearns, U. S. Army; Mr. Morris M. Green, of Syracuse, N. Y., and Mr. W. R. Horn, of Melbourne, Australia. Miss Annie Peniston, of Hamilton Parish, Bermuda, has presented another collection of shells from Bermuda, an addition to her previous donation.

The Copper Queen Consolidated Mining Company has added to its previous gifts a number of valuable specimens, and Mr. I. F. Elder, of Keokuk, Iowa, presented forty-two geodes from Northwestern Missouri.

A collection of fossils and shells were donated by Mr. Wm. E. Crane, of Tarrytown, N. Y., many of the shells being previously unrepresented in the collection.

The Department of Anthropology has been greatly benefited through the liberality of the Duke of Loubat. The means to

continue archæological research in the Delaware Valley, near Trenton, N. J., were provided by him, and the results sent to the Museum. He has also presented the Department a number of casts made from large sculptures in the National Museum of Mexico, and a complete set of the casts from America, Asia and Polynesia, in the Ethnographical Museum of Berlin. To these he has added casts from the moulds, owned by Mr. A. Maudslay, of the large sculptured stone at the ancient ruins of Quirigua, Guatemala, known as the "Great Turtle of Quirigua," a cast of the largest of the stone idols at the same place, 27 feet in height, and of a large stone of similar character from the ruins of Copan, Honduras.

The Duke also provided the means for securing a number of casts of other large sculptures from Copan, from moulds belonging to the Peabody Museum, and we are also indebted to him for a large collection of objects obtained in Mexico and Guatemala by Dr. Edward Seler.

Mr. Francis C. Nicholas, General Manager of the South American Exploration Company, made an interesting collection of archæological material during his examination of the tract of land belonging to this Company in the eastern portion of the United States of Colombia. The gift contains a number of specimens of special interest from a region hardly known to the archæologist.

Late in the year, forty-eight new water colors, painted by Mrs. C. S. Sargent, were added to the Collection of North American Forestry by the President; others will be contributed until the collection is made complete. Sections of several new species of trees, discovered during the year, were also added, and new maps were prepared showing the geographical distribution of the trees.

We are greatly indebted to Mr. Wm. Schaus, of Twickenham, England, who has recently donated his collection of Old World Moths, in all eight thousand specimens. Mr. Schaus is engaged in identifying the species still in his possession, and upon the completion of this work will send them to the Museum.

The Trustees are also indebted to the Very Reverend Dr. Eugene A. Hoffman, Dean of the General Theological Seminary of this city. His interest in the Museum has induced him to

present us with a representative collection of the Butterflies of America, North of Mexico. He has also authorized the Curator to select for the Museum a representative collection of the Butterflies of Central and South America.

The Termite and Ant Hill Nests, collected in Hayti and the United States of Colombia, by Mr. Francis C. Nicholas, now shown in the Gallery Hall, were presented by Mr. Henry C. Pratt of this city.

Among the many accessions to the Library I make special mention of the gift of Miss Laura P. Halsted, a warm friend of the Institution, who presented three hundred and seven volumes as a memorial to her brother, the late Robert Halsted.

Another important donation has been received from the British Government, which, at the request of the Royal Society, has presented to the Library the "Report on the Scientific Results of the Voyage of H. M. S. 'Challenger,'" consisting of forty-four volumes.

The Library has also received, through the generosity of the Duke of Loubat, ninety-two volumes relating especially to Anthropology, an exceptionally helpful gift to this department, the works having been selected with reference to its needs. Many of the volumes are very rare.

One hundred specimens have been added to the mammal exhibit, among which are six Deer, a Puma, three Mountain Sheep, a Rhinoceros, a Nilghau, and four dogs representing prominent races.

Two new groups were added to the series of bird groups, prepared with their natural surroundings; one of these comprises adult and young specimens of the Duck Hawk. The other contains the old and young of the Red-shouldered Hawk. Both were mounted with their natural accessories in a realistic manner, under the supervision of Mr. John Rowley, and have been placed in the main hall, at the entrance.

Skeletons of the Walrus, White-tailed Gnu, Polar Bear, Narwhal, Rhinoceros and Boa Constrictor have been added to the exhibition collection.

About 250 geological and mineralogical specimens were purchased in various parts of Russia and Russian Armenia by

Dr. Edmund O. Hovey, Assistant Curator in the Geological Department, while in attendance at the Seventh Triennial Session of the International Geological Congress convened at St. Petersburg. Dr. Hovey also made a short stay at the Marine Zoölogical Laboratory, Bay of Naples, where he secured a very interesting series of specimens. His leave of absence covered a period of several months, a portion of the cost of the journey and his salary being defrayed by the Trustees.

EXPEDITIONS.—Field exploration is an influential factor in the growth of the Museum, and its importance increases with each succeeding year. The brief mention here following gives but an inadequate idea of the great increase in the collections due to this source.

After remaining nearly four years in Mexico, Dr. Carl Lumholtz returned in April last, and has since been engaged in preparing his notes, and the labels for the material gathered by him. This large and costly collection, secured among the tribes of Mexico, adds greatly to our knowledge of their history. From the Huichols a full series of objects was obtained relating to tribal ceremonies. The specimens have been catalogued, and will soon be arranged in the west wing.

Dr. Adolf F. Bandelier has continued his researches in Bolivia and Peru, mainly in the vicinity of Lake Titicaca. The collections received during the year were numerous and valuable, and contained a number of trephined skulls, to which attention was called many years ago by the late E. G. Squier. The Museum now owns a large number of these skulls, and very interesting results will accrue from their study, particularly since one gives evidence of the remarkable surgical operation of bone-grafting. The Peruvian collection has not yet been exhibited in its entirety, but will soon be placed in the west wing.

The services of Mr. Ernest Volk were continued for the entire year, exploring at several points near Trenton, N. J. As before mentioned, the Duke of Loubat defrayed the cost of this work, which has been carried on under the direction of Prof. F. W. Putnam for the purpose of careful investigation of the question

which has arisen relative to the antiquity of man in the Delaware Valley. In this connection it may be stated that a subscription has been made by Mr. B. Talbot B. Hyde to defray the cost of further continuing the work in 1898.

Acting under the concession granted to this Institution by the Mexican Government, Mr. Marshall H. Saville, Assistant Curator in charge of the division of Archæology, has been for several months in Mexico, engaged in the exploration of ancient ruins, from which he has gained information of great scientific importance, and has also sent valuable material for our exhibits. Mr. Saville will not return until May next.

Messrs. B. Talbot B. Hyde and Frederick E. Hyde, Jr., have at their personal cost continued the explorations in the ancient pueblos in New Mexico. The present year forms the third season of the work they have very generously prosecuted in the interest of the Museum. Fully as valuable results are expected from the continuation of the work next year, and it is a source of sincere pleasure to feel that the efforts of the Trustees meet with such earnest coöperation.

Another important expedition was undertaken in the interest of the Department of Vertebrate Zoölogy by Mr. A. J. Stone, a trained collector. His plans provide for a series of journeys, begun this year, and to be continued till the close of the autumn of 1900. His operations will cover the territory from Montana to Bering Strait. The Department will thus acquire a full representation of the game and other large animals to be found in the countries he will visit. This material will greatly enrich our display of North American Mammals, for which additions the Museum is indebted to Mr. James M. Constable.

It is of interest to note that an important plan has been arranged conjointly with the Carnegie Museum, whereby Mr. Herbert H. Smith, late a curator there, and a skilled collector, will make an extended trip to the United States of Colombia. He will gather specimens for both institutions, which will provide this Museum with a large series of species now unrepresented in our collections.

Mention was made in the report of the preceding year of the valuable results which would accrue to science from a systematic

investigation of the tribes inhabiting the coasts of the North Pacific Ocean, and the acquisition of information disclosing their historical development. In the same report a map was annexed showing the region which it was proposed to cover in the course of the research. The details of the plan were arranged in the beginning of this year in order to enter upon the work at the earliest practicable moment. Your President thereupon decided to assume the expense involved in prosecuting the research, and a revised map is incorporated in the present report showing the localities to be visited during the next four years.

The plans for the work for the second year have been decided, and reports will be made from time to time of the operations of the parties in the field. Occasional articles, which have appeared in the public press, have furnished a brief and popular narrative of the progress made by the explorers up to the close of the first season.

Thanks are due to the Imperial Russian Government for assurances of its coöperation in the work to be undertaken on the coast of Northeastern Siberia, and the State Department of our own country has also given valuable assistance and counsel, in relation to the movements of the explorers.

Our parties engaged in the field received important aid from some of the transcontinental lines, and it is very gratifying to record this manifestation of continued interest in the Museum's work. In this regard, the Board is indebted to Mr. C. P. Huntington, Mr. George J. Gould, Mr. Eben B. Thomas, Sir William C. Van Horne, Mr. Edward D. Adams, Mr. James J. Hill, and Mr. E. T. Jeffrey. The Wisconsin Central Railroad and branches have aided the Museum in the transmission of freight, and the New York & Cuban Mail S. S. Company, and the Panama R. R. Company, have granted special rates on shipments from Mexico and Peru.

DEPARTMENT OF VERTEBRATE ZOÖLOGY.—Additional room and larger facilities were provided for the Study Collection, which was rearranged during the year. A beginning has been made toward gathering material to represent by means of casts, or mounted specimens, the fish and reptile fauna of the State.

Labels were supplied for all new specimens of Mammals, and many old labels have been replaced to conform to the recent changes in nomenclature; the Bird Collection has received similar attention. The gain of the year is summarized as follows : Mammals, 872 ; birds, 1356 ; reptiles, 146 ; fishes, 150.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE ZOÖLOGY.—The work of the department has mainly been devoted to the care of the Shell Collection ; labels have been prepared for the general collection, which has required the revision and preparation of about 4500 labels. In bringing together the material, it is disclosed that the case room is insufficient for the proper installation of this branch of our collections, and it will require therefore the assignment of more space for the purpose.

Considerable attention has also been given to the specimens of Invertebrate Zoölogy in the way of mounting and preparing specimens brought in during the year. The corals and sponges have been displayed to better advantage.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—In referring to this department, a portion of the report of its Curator, Prof. Henry F. Osborn, is incorporated, for the purpose of more clearly expressing the gratifying results achieved through the efforts of the force engaged in field work. The field parties consisted of Dr. J. L. Wortman, Dr. W. D. Matthew and Mr. W. W. Granger of the Museum ; and Messrs. Brown and Menke of Kansas University. The Curator also spent a short time in field work.

“In the Department of Vertebrate Palæontology we have continued to devote the greatest care and study toward arousing the interest of the public in our exhibits. Two large charts have been made, showing clearly the succession of animals in the ascending series of rocks on this continent.

“Three years ago we first took the camera into the field, and began to secure a series of photographs of the sites where the different types of extinct animals are found. We have now taken advantage of the negatives, and are having them enlarged and carefully colored as window transparencies, thus conveying to the visitors a clear idea of the Bad Lands. From over two hundred negatives, we propose to fill all the windows in the Hall with scenes taken at or near the specimens exhibited.

"Aided by the generous gift of Mr. J. Pierpont Morgan, Mr. Charles Knight has continued his series of water-color drawings representing North American life, which have aroused very great interest abroad as well as in this country. These water-colors have also been reproduced in large bromide photographs, and distributed as exchanges to other museums.

"Complete series now hang in the British Museum, London, and have been sent to museums at Oxford, and the Royal Museum at Brussels. Altogether, 19 water colors have been completed.

"We have also begun to make a series of models of extinct animals, also the work of Mr. Knight, which are cast for our own Hall, as well as for the purposes of exchange.

"Attention is especially directed to the rapid progress in the mechanical methods (under the direction of Mr. Adam Hermann). Beginning with the low relief style shown in the photographs of the Three-toed Rhinoceros, which was mounted in 1893, we have finally attained the beautiful method shown in the Horned Rhinoceros, the most perfect example of its kind; the entire skeleton being supported by steel rods which pass through the centre of the bones, only the two main supports being visible.

"The mount of *Phenacodus* is also a model, as every bone can be removed for purposes of study, this being one of the rarest and most unique fossil skeletons in the world.

"In 1896 we reached a stage of development of our fossil Mammal Collection, which rendered it expedient to enter a new field.

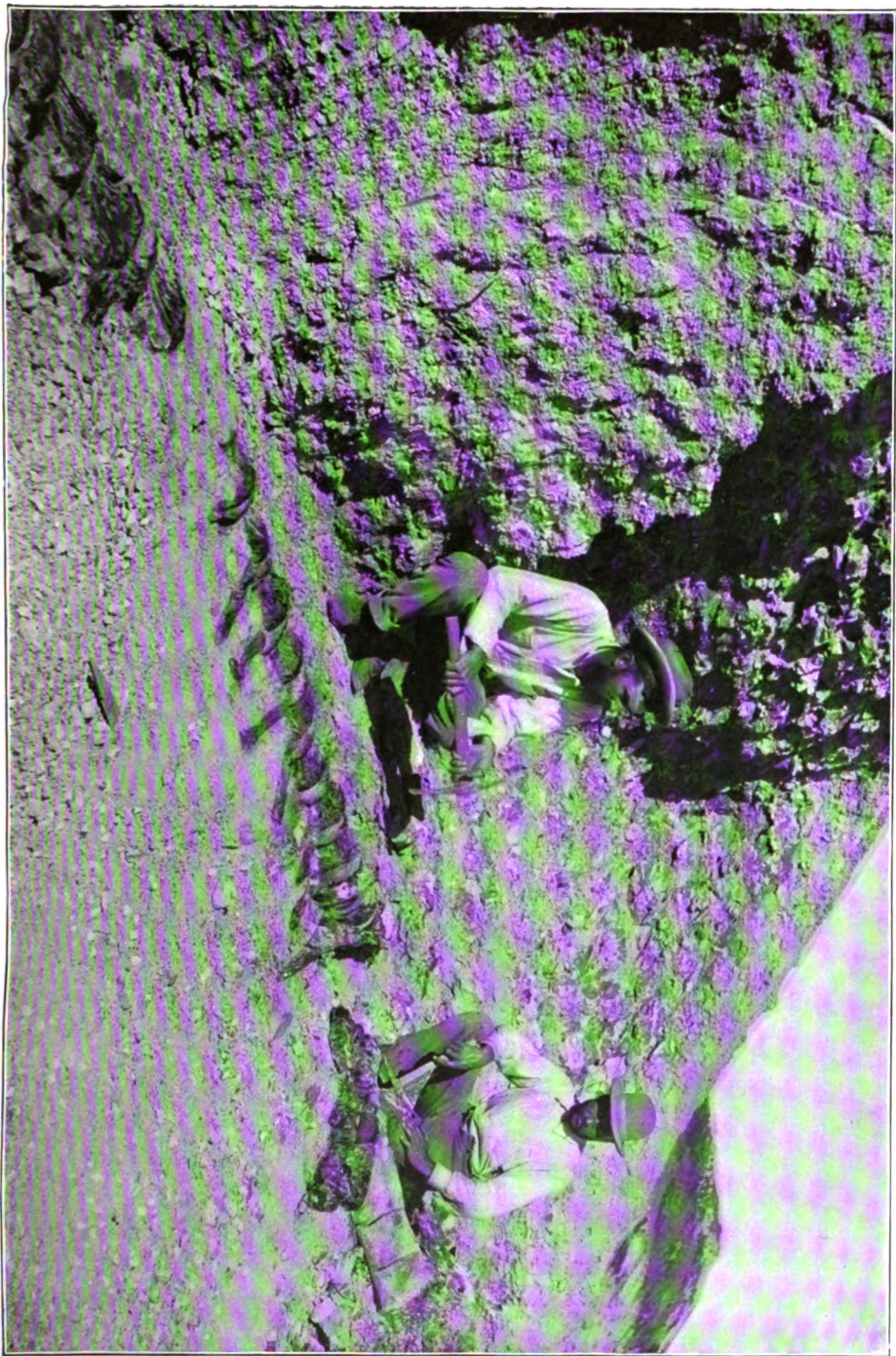
"The total number of specimens collected and catalogued in the five years ending 1896 was 7,661, including nearly 40 complete skeletons. This, added to the 3,600 specimens in the Cope Collection, gave us a total of 10,961. This total has been reduced for the fine exchange collections sent to Munich and Paris, for which we have received 300 specimens from Munich and a beautiful series of casts from Paris, to be followed by collections of original skeleton material.

"In 1897 the Department had extraordinary success in the field as a result of four expeditions, filling 80 boxes, requiring nearly two freight cars for their transportation.

"Starting to open a quarry in Wyoming for the oldest type of mammals, the party made an unexpected discovery, first of one, then of two reptile skeletons of magnificent size, and in a remarkable state of preservation.

"Thus has been inaugurated the second great division of the work, namely, the history of the Reptiles in North America. Besides the Dinosaurs found in Wyoming, a good beginning was made in eastern Kansas in the search for flying reptiles and marine swimming reptiles, and for the Mammalian Collection was

DEPARTMENT OF VERTEBRATE PALEONTOLOGY.



EXCAVATION OF BACK-BONE OF GREAT DINOSAURIAN REPTILE IN SOUTHERN WYOMING.

secured a complete skeleton of the Three-toed Horse, adding another important step to the history of this family, and to its contemporaries, the Llamas, Sloths, etc."

The Department of Public Instruction has made a complete set of the negatives of the paintings of restorations in this department, referred to in the abstract of the Curator's report; the photographic slides of these paintings will be distributed throughout the State for the benefit of the Normal Schools.

DEPARTMENT OF ANTHROPOLOGY.—This important department has made marked progress during the year, and the results serve to show the great possibilities future years hold for the development of its plans and collections, and the valuable aid which they may become in the advancement of science and public education.

The field to be covered in the illustration of the various phases of the life history of our race is too vast in extent to be dwelt upon at this time.

The large space assigned in the west wing for the collections of this department will add sufficient space for its immediate requirements, but the continuance of the various expeditions in the field will provide so much valuable and important material that the erection of additional structures cannot be deferred beyond the next few years.

Several of the collections received into the department during the year have a special value, inasmuch as they were obtained by collectors having the most important requirements of the Museum in view. Thorough work of this character has been done by Dr. Franz Boas, Messrs. M. H. Saville and Harlan I. Smith, assistants.

DEPARTMENT OF ENTOMOLOGY.—Accessions to this department have greatly increased during the past few years. The preparation of labels has been carried on steadily, and the new material numbered for identification as it arrived. This is a slow and tedious process, and while the work is advanced as rapidly as possible, it is estimated that fully one hundred thousand specimens still remain uncatalogued.

The formation of a local collection of insects, or of those found within a radius of fifty miles from this city, was commenced a few years since and is now nearly complete ; for the pupils of public and private schools, the collection will possess special interest and be a means of education in natural history study. Many of these species could be utilized in the preparation of insect groups, combined with natural accessories, after the manner used in the construction of groups of mammals and birds.

THE LIBRARY.—Late in the year the removal of the books to the new quarters provided in the west wing was completed, the stacks and shelves of which, constructed of iron, are planned in conformity with the most approved designs.

The windows afford ample light except on dark days, and for such occasions the alcoves have been furnished with stationary and portable electric lights. Stacks were built in double stories and are supplied with japanned racks, numbered.

The books are classified in sections with reference to the various branches of natural history, also geographically. Scientific periodicals, domestic and foreign, are placed in the gallery racks. Room has been provided for the placement of fifty thousand volumes.

The accessions received this year exceed those of any preceding year in the history of the Museum. The librarian reports a gain of 3,350 volumes, 3,874 numbers and parts, and 367 pamphlets, making the total number of volumes at the close of the year, 35,852.

Although the Library now takes high rank among those pertaining to natural history, it is nevertheless deficient in several branches, and a special appropriation of five thousand dollars annually could be advantageously expended in adding publications desired by the several departments.

DEPARTMENT OF PUBLIC INSTRUCTION.—The growth of this department has continued, and its usefulness has widened.

Prof. Albert S. Bickmore, Curator of the department, planned to provide means for the teachers in the kindergarten and primary departments of our public schools, to teach their pupils by the



MOUNTED SKELETON OF UPPER MIOCENE RHINOCEROS.
Bones supported by concealed steel rods.

visual method, and delivered an illustrated lecture to a class of the youngest pupils in this city, and in Albany, in order to test the efficiency of the method of instructing those who enter the lowest grades of the public schools. Experimental trials were very encouraging, and their continuance through the teachers of the lower grade classes was approved by the State Superintendent of Public Instruction.

A series of seventy-five drawings of some of the birds of our country have just been completed, and slides colored from the specimens in our halls. These slides were exhibited by the Curator at the annual meeting of the American Ornithologists' Union, and at the meeting of the Audubon Society of the State of New York, held at the Museum during the autumn and winter. On one screen appeared the slide showing the specimen, and beside it were exhibited views of Central Park and other parts of our State in summer and in winter, so that the bird, its habitat, and the season of its presence, were shown at the same time. The courses of lectures delivered by the Curator during 1897 to the teachers of the public schools were in accordance with the series of subjects approved by the Honorable Charles R. Skinner, State Superintendent of Public Instruction.

The free lectures given to our citizens under the joint auspices of the Board of Education and this Institution have been maintained with undiminished success under the direction of Dr. Henry M. Leipziger, Supervisor of Lectures. That their popularity has largely increased is evinced by the numbers unable to gain admission to the hall on Tuesday evenings. The lectures given under the auspices of the Linnæan Society; the New York Botanical Garden; the Audubon Society; the New York Entomological Society, and the receptions of the New York Academy of Sciences and the New York Microscopical Society have necessitated the opening of the Museum one extra evening each week. The Trustees have devoted Tuesday evenings for the Board of Education Series, and Saturday evenings for the lectures given by the Professors of Columbia University; these courses extend from October to May inclusive. Tickets to these lectures are always sent to members of the Museum.

LECTURES TO THE TEACHERS OF THE PUBLIC SCHOOLS BY
 PROF. ALBERT S. BICKMORE.

Lecture 199*a*.—Lower Egypt—Cairo.
 “ 199*b*.—Upper Egypt—Karnak.
 “ 200*a*.—Southern Palestine—Jerusalem.
 “ 200*b*.—Northern Palestine—Damascus.
 “ 201.—Switzerland.

Lecture 202a.—Greece—Athens.
 “ 202b.—Greece—Marathon to Corfu.
 “ 203a.—Southern Italy—Naples and Pompeii.
 “ 203b.—Central Italy—Rome.
 “ 204.—Northern Italy—Florence and Venice.

New Year's Day.—California and Yosemite Valley.
Washington's Birthday.—Mexico.
Thanksgiving Day.—Greece—Athens and Olympia.
Christmas.—Naples and Pompeii.

Feb. 4.—Lower Egypt—Cairo.
 " 11.—Upper Egypt—Karnak.
 " 18.—Southern Palestine—Jerusalem.
 " 25.—Northern Palestine—Damascus.

Oct. 28.—Greece—Athens.
Nov. 4.—Greece—Marathon to Corfu.
“ 11.—Italy—Naples and Rome.
“ 18.—Italy—Florence and Venice.

Jan.	2.—The Oldest Signs of Man in America.....	Dr. Daniel G. Brinton.
"	9.—The Native Industrial Arts of the Indians of the United States.	Dr. Otis T. Mason.
"	16.—Art of the North American Indians.....	Dr. Franz Boas.
"	23.—The Organization of the Family among North American Indians.	Dr. Livingston Farrand.
"	30.—Some peculiar Peoples of Southern France...	Dr. William Z. Ripley.
Feb.	6.—History—Fermentation.....	} ..Dr. C. E. Pellew.
"	13.—Fermented Liquors. Wine, Beer, Kumyss...	
"	20.—Distillation and Distilled Liquors.....	
"	27.—General and Special Properties of Alcohol..	

- NEW YORK BOTANICAL GARDEN LECTURES, 1897.

Henry M. Rusby, M.D.

Dec. 2.—Public Meeting of the Audubon Society of the State of New York.

NEW YORK ENTOMOLOGICAL SOCIETY LECTURES, 1897.

- Apr. 10.—Protective Coloring and Mimicry of Animals, with Special
Reference to Insects. Prof. Lyman A. Best.
" 24.—The Study of Insects: Their Structure and Formation.
Dr. E. G. Love.

RECEPTIONS.—April 13th, New York Microscopical Society; April 5th and 6th, New York Academy of Sciences. Nov. 9th, 10th, 11th, The Fifteenth Annual Congress of the Ornithologists' Union.

PUBLICATIONS.—Volume IX of the Bulletin was issued during the year, forming a volume of about 400 pages, with 38 plates and nearly 150 text figures. The 24 articles arranged by departments, are as follows :

DEPARTMENT OF INVERTEBRATE PALÆONTOLOGY.

Note on the Hypostome of *Lichas (Terataspis) grandis* Hall. By R. P. Whitfield (pp. 45, 46, with 3 text figures).

Descriptions of New Species of Silurian Fossils from near Fort Cassin and elsewhere on Lake Champlain. By R. P. Whitfield (pll. IV and V, pp. 177-184).

Descriptions of Rudistæ from the Cretaceous Rocks of Jamaica, W. I., collected and presented by Mr. F. C. Nicholas. By R. P. Whitfield (pll. VI-XXII, pp. 185-196).

Observations on the Genus *Barrettia* Woodward, with Descriptions of two New Species. By R. P. Whitfield (pll. XXVII-XXXVIII, pp. 233-246, with two full page text cuts).

DEPARTMENT OF VERTEBRATE ZOÖLOGY.

On Mammals from Yucatan, with Descriptions of New Species. By J. A. Allen and Frank M. Chapman (pp. 1-13).

On a Second Collection of Mammals from the Island of Trinidad, with Descriptions of New Species, and a note on some Mammals from the Island of Dominica, W. I. By J. A. Allen and Frank M. Chapman (pp. 13-30).

Additional Notes on Costa Rican Mammals, with Descriptions of New Species. By J. A. Allen (pl. I, pp. 31-44).

Further Notes on Mammals collected in Mexico by Dr. Audley C. Buller. By J. A. Allen (pp. 47-58).

Preliminary Description of a New Mountain Sheep from the British Northwest Territory. By J. A. Allen (pll. II and III, pp. 111-114).

On a small Collection of Mammals from Peru, with Descriptions of New Species. By J. A. Allen (pp. 115-120).

Descriptions of a New Species of *Sigmodon*, from Bogota, Colombia. By J. A. Allen (pp. 121, 122).

On a Collection of Mammals from Jalapa and Las Vigas, State of Vera Cruz, Mexico. By J. A. Allen and Frank M. Chapman (pp. 197-208).

Hybrids between the Game Cock and the Guinea Fowl. By Juan Vilaró, M.D. (pll. XXV and XXVI, pp. 225-230).

Description of a New Vespertilionine Bat from Yucatan. By J. A. Allen (pp. 231-232).

Notes upon New York Fishes received at the New York Aquarium, 1895-1897. By Tarleton H. Bean (pp. 327-375).



RELIEF MOUNT OF FOSSIL RHINOCEROS, GIVING EFFECT OF EXCAVATION FROM THE ROCK.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

The *Ganodonta* and their Relationship to the *Edentata*. By J. L. Wortman, M.D. (pp. 59-110, with 36 text figures).

The Huerfano Lake Basin, Southern Colorado, and its Wind River and Bridger Fauna. By Henry Fairfield Osborn (pp. 247-258).

A Revision of the Puerco Fauna. By W. D. Matthew (pp. 259-324, with 20 text figures.)

DEPARTMENT OF ANTHROPOLOGY.

The Decorative Art of the Indians of the North Pacific Coast. By Franz Boas (pp. 123-176, with 81 text figures).

An Ancient Figure of Terra Cotta from the Valley of Mexico. By H. M. Saville (pls. XXIII and XXIV, pp. 221-224, and 1 text figure).

DEPARTMENT OF ENTOMOLOGY.

Notes on Some Species of North American Moths. By William Beutenmüller (pp. 209-212).

Notes on North American Sesiidæ, with Descriptions of New Species (pp. 213-216).

Food Habits of North American Sesiidæ. By William Beutenmüller (pp. 217-220).

Three New Species of *Heterocerca* from Sierra Leon, Africa. By W. Schaus (pp. 325-327).

Part III of Volume I of the *Memoirs* is in press, and will be shortly issued, consisting of 9 plates and about 70 pages, by Professor Osborn, forming Part I of his monograph, 'The Extinct Rhinoceroses.'

Eighteen plates have been printed for a memoir by Mr. M. H. Saville on the 'Codex Legislatif,' and several plates have been prepared for a forthcoming monograph of the Clear-winged Moths (Sesiidæ), by Mr. Wm. Beutenmüller.

A number of papers planned for publication in 1897 have been necessarily deferred for various reasons, but mainly for lack of money. Hence there remains in the hands of the Publication Committee five papers ready for immediate publication in the *Bulletin*. It is desirable, therefore, that the appropriation for this branch of the Museum's work shall be largely increased for the coming year.

EXCHANGES OF DUPLICATE MATERIAL.—Exchanges of material have been made and are in process between this Institution and several of the museums at home and abroad, which will add many new and desirable objects to the Department of Anthropology, Vertebrate Zoölogy, and Vertebrate Palæontology.

MEMBERSHIP.—Miss Laura P. Halsted and the Very Reverend Eugene A. Hoffman, D.D., were each elected a "Fellow," and Messrs. James C. Baldwin, John J. Corning, George Iles, Morris M. Green and Mrs. Sally Morris Cory were made "Life Members."

The following members have died during the year: Howard Potter and Charles W. Cass, "Fellows," and Henry M. Taber, E. Oelbermann, George Kemp, Charles H. Contoit, Charles Moran, Charles Addison Miller, James Fraser and Mrs. James C. Ayer, "Life Members."

It is a sad duty to record the decease of our late friend and associate Trustee, Mr. Theodore A. Havemeyer, which occurred April 26, after a brief illness. Mr. Havemeyer always showed great interest and zeal in promoting the growth of the Museum, and the loss of his services and counsel will be deeply felt.

Each year discloses an increase in the applications for permits to make drawings and studies of the specimens. Requests are also frequently made to permit photographs to be taken of objects to be used in the illustration of articles for the daily press and magazines.

It is the aim and desire of the Trustees to encourage the scientist, the student and the public to avail themselves of the collections and the library for the study of natural history. To this end the Library is always open to visitors desiring to consult its volumes, and the curators extend a welcome to persons in search of technical information regarding the determination of specimens. The growth of public interest in this direction becomes more marked year by year; teachers bring entire classes of pupils to extend their study by the examination of the objects.

The growth of the collections has surpassed the progress made during 1896, and the year to come promises a still greater advance.

The yearly income from the invested funds of the Museum amounts to less than nineteen thousand dollars per annum, a sum far too small to rely upon for the increase of the collections. This income is supplemented by the receipts from members, and friends who subscribe for special work in the field and for

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.



MODEL OF LEAPING DINOSAUR.

the purchase of collections. The Trustees are also called upon for subscriptions to meet the annually recurring deficit in the receipts. The essential requirement is a largely increased endowment fund. Noting the ever-increasing interest in the Institution, I have strong hopes that the not distant future holds a promise of success in this direction. It is not a question of the merits of the Museum, its value as a factor in the instruction and recreation of the public and the advancement of popular education being cheerfully conceded by all classes of our citizens. Our hearty thanks are due to the annual subscribers and our friends who have been added to the roll of Patrons, Fellows and Life Members, through gifts of money or collections. I trust that the progress of the Museum will always enlist their interest and aid.

I embrace this occasion to record my testimony of the good will, uniform kindness and hearty coöperation which the Institution has received at the hands of the municipal authorities.

In closing this brief report it is a pleasure to acknowledge the zeal and earnest attention manifested by the members of the scientific and administrative staff of the Museum.

MORRIS K. JESUP,

President.

THE AMERICAN MUSEUM OF NATURAL HISTORY

MAINTENANCE.

RECEIPTS.

Jan. 1, 1897. Transferred from Endowment Account to balance deficit in Maintenance Account.....	\$ 3,406 23
Department of Public Parks.....	94,998 18
Special Loan.....	12,000 00
Consolidated Gas Co. (refund).....	40 26
Transferred from Endowment Account to balance deficit in Maintenance Account, Dec. 31, 1897.....	1,510 01

\$111,954 68

Examined { ANSON W. HARD, } *Auditing*
and approved, { GEORGE G. HAVEN, } *Committee.*

Correct.—JOS. W. EDWARDS, *Auditor, Feb. 11, 1898.*

in account with CHARLES LANIER, TREASURER.

MAINTENANCE.

DISBURSEMENTS.

Jan. 1, 1897. Debit balance from 1896	\$ 3,406 23
Expressage.....	593 04
Salaries	42,043 40
Labor	32,389 07
Printing	24 35
General Expenses.....	2,638 73
Postage.....	325 57
Repairs.....	2,098 29
Coal.....	4,296 93
Supplies.....	3,493 70
Labels.....	1,196 94
Stationery.....	730 10
Fixtures.....	4,367 77
Interest on "Dr." balances.....	244 89
Poison	989 84
Traveling Expenses.....	25 50
Annual Report.....	903 23
Special Loan and Interest.....	12,187 10

\$111,954 68

CHARLES LANIER, *Treasurer.*

[E. & O. E.]
New York, Dec. 31, 1897.

THE AMERICAN MUSEUM OF NATURAL HISTORY

ENDOWMENT.

RECEIPTS.

To Interest on Invested Funds	\$18,600 00	
Trustees' Subscriptions :		
Wm. C. Whitney	\$2,000 00	
Elbridge T. Gerry	2,000 00	
Jos. H. Choate	1,000 00	
D. Willis James	2,000 00	
James M. Constable.....	2,000 00	
Theodore A. Havemeyer.....	2,000 00	
Anson W. Hard.....	500 00	
Archibald Rogers	500 00	
William E. Dodge.....	2,000 00	
Oswald Ottendorfer	1,000 00	
Morris K. Jesup.....	2,000 00	
J. Pierpont Morgan.....	2,000 00	
Charles Lanier.....	1,000 00	
C. Vanderbilt	2,000 00	
Adrian Iselin	1,000 00	
William Rockefeller	1,000 00	
D. O. Mills.....	1,000 00	
Abram S. Hewitt	500 00	
Cash.....	250 00	25,750 00
Annual Members		6,680 00
Life Members :		
James C. Baldwin	\$100 00	
John J. Corning	100 00	
George Iles.....	100 00	300 00
M. K. Jesup—Mountain Sheep Group		200 00
J. M. Constable—"		200 00
Admission Fees.....		1,116 75
Henry F. Osborn		2,000 00
Vertebrate Palæontology—Sale of Casts		48 25
State Superintendent of Public Instruction.....		12,000 00
B. T. B. & F. E. Hyde, Jr		800 00
Very Rev. E. A. Hoffman, D.D.....		508 30
Joseph F. Loubat.....		1,250 00
Guides		61 50
Collecting Permits.....		34 00
		69,548 80
		<u>\$69,548 80</u>

Examined { ANSON W. HARD, } *Auditing*
and approved, { GEORGE G. HAVEN, } *Committee.*

Correct.—JOS. W. EDWARDS, *Auditor, Feb. 11, 1898.*

ENDOWMENT.

DISBURSEMENTS.

By Balance from 1896	\$7,258	10	
Minerals	251	15	
Ornithology	81	52	
Bulletin	2,725	31	
Emmons' Second Alaskan Collection	5,668	10	
Mammals	566	13	
Kunz Jade Collection	600	00	
Anthropology	3,338	26	
Library	1,044	78	
Mammal Groups	406	10	
Appleton Sturgis—Pacific Islands Collection	3,854	38	
Skeletons	318	08	
General Expenses	607	37	
Lumboltz Expedition, Mexico	1,882	28	
Bird Groups	33	00	
Geology	568	71	
Postage	45	36	
Traveling Expenses	485	50	
Conchology	34	12	
Peruvian Expedition	4,223	53	
Stationery	128	75	
Edwards' Entomological Collection	600	00	
Entomology	648	57	
Spang Collection, Minerals	150	00	
Haines Collection, Shells	1,000	00	
Edward D. Cope Collection	8,086	81	
Vertebrate Palæontology	3,906	31	
Department of Public Instruction	9,580	40	
Economic Collection	97	50	
Invertebrate Zoölogy	105	90	
Ethnic Groups	158	23	
Niven Mexican Collection	500	00	
Mexican Expedition	2,474	50	
Printing	11	75	
Transferred to Maintenance Account to balance deficit Jan. 1, 1897	3,406	23	
Transferred to Maintenance Account to balance deficit Dec. 31, 1897	1,510	01	
Surplus Cash on hand	3,192	06	\$69,548 80
			<u>\$69,548 80</u>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, Dec. 31, 1897

CHAPTER 213.

AN ACT to provide for enlarging the building situated in Central Park, in the City of New York, and occupied by the American Museum of Natural History, for the purpose of furnishing proper facilities for increased exhibition and public instruction.

Accepted by the city.

Became a law April 7, 1897, with the approval of the Governor. Passed, three-fifths being present.

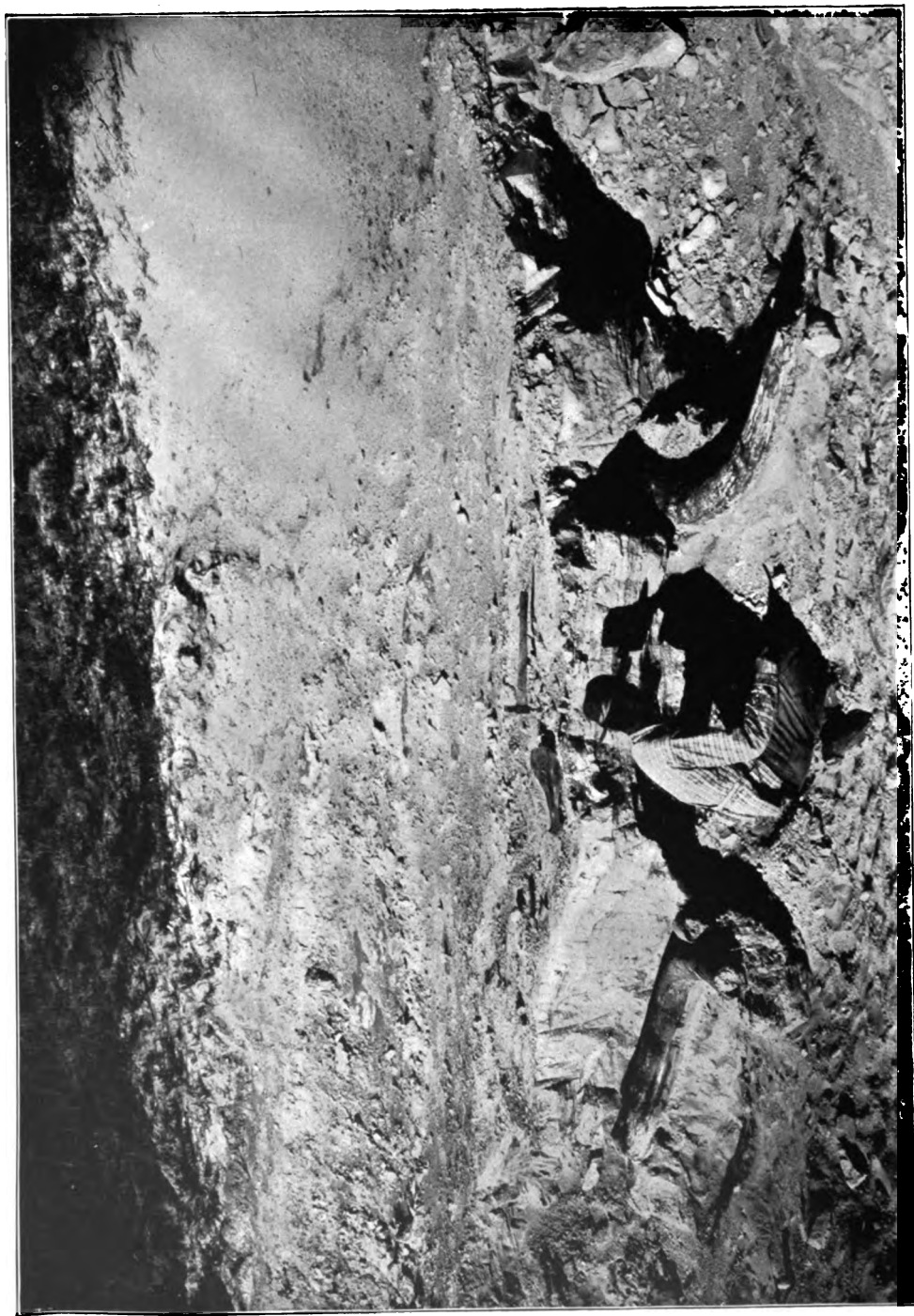
The People of the State of New York, represented in Senate and Assembly, do enact as follows :

SECTION 1. The department of public parks in the city of New York, with the concurrence of the board of estimate and apportionment, is hereby authorized to erect and equip additions to the building situated in that part of Central Park formerly known as Manhattan square, and which is now in the possession and occupation of the American Museum of Natural History, under and in accordance with the contract made in pursuance of chapter one hundred and thirty-nine of the laws of eighteen hundred and seventy-six, chapter two hundred and seventy of the laws of eighteen hundred and ninety-two, chapter thirty-one of the laws of eighteen hundred and ninety-three, and chapter one hundred and seventy-five of the laws of eighteen hundred and ninety-six. Such additions shall be so constructed as to provide for the suitable display of the specimens of the museum, and may also include a lecture hall. The trustees of said museum shall select the architects to prepare, under their direction, the plans, and to superintend, under the direction of the department of public parks, the construction of said additions. Said plans, when completed, shall be submitted by said trustees to the said department for its approval, and may include any additions to or alterations of the present building made necessary by the aforesaid enlargements, and such additions, alterations, improvements and repairs to it as the said department and the trustees of said museum may agree are proper and necessary. The said department shall provide for the compensation of the architects out of the fund hereby provided for the erection of said additions. Said equipment shall include all the cases and fittings and other apparatus required for the preparation, exhibition and preservation of the specimens, books and other property of the museum.

§ 2. For the purpose of providing means for carrying into effect the provisions of this act, it shall be the duty of the comptroller, upon being thereunto authorized by the board of estimate and apportionment, to issue and sell, but at not less than their par value, bonds or stocks of the mayor, aldermen and commonalty of the city of New York, in the manner now provided by law, payable from taxation, but not exceeding in the aggregate the sum of five hundred thousand dollars, bearing interest at a rate not exceeding four per centum per annum, and redeemable within a period of time not exceeding thirty years from the date of their issue.

§ 3. All acts and parts of acts inconsistent with the provisions of this act are hereby repealed.

§ 4. This act shall take effect immediately.



EXCAVATION OF FOSSIL HORSES AND ELEPHANTS IN NORTHWESTERN NEBRASKA

LIST OF ACCESSIONS, 1897.

DONATIONS.

LIBRARY.

S. P. AVERY, New York City.

- Johannes Goedartius de Insectes, etc. By M. Lister. 1685.
Natural History of the Insects mentioned in Shakespeare's Plays. By Robert Patterson. 1842.
Shakespeare Flora. By Leo. H. Grindon. 1883.
Bibliographia Zoologiæ et Geologiæ. 4 Vols. 1848-1854.
Bibliothèque Physique De La France, etc. By ML-A-P. Hérissant. 1771.

O. BANGS (the author), Boston, Mass.

- Some New Mammals from Indian Territory and Missouri. 1896.
The Skunks of the Genus *Mephitis* of Eastern N. A. 1896.
A Review of the Squirrels of Eastern N. A. 1896.
A New White-footed Mouse from British Columbia. 1897.
On a Small Collection of Mammals from Hamilton Inlet, Labrador. 1897.
Preliminary Description of the Newfoundland Marten. 1897.
Preliminary Description of a New Race of the Eastern Vole from Nova Scotia. 1897.
Preliminary Description of a New Vole from Labrador. 1896.

PROF. A. S. BICKMORE, New York City.

- Third Annual Report of New York Department of Agriculture. 3 Vols. 1896.

DR. J. C. BRANNER (the author), Stanford University, Cal.

- The Phosphate Deposits of Arkansas. 1896.
The Red River and Clinton Monoclines, Arkansas. 1897.
The Former Extension of the Appalachians across Mississippi, Louisiana and Texas. 1897.

FREDERICK E. CHURCH, Hudson, N. Y.

- The Necropolis of Ancon in Peru. Parts I-XIV. By W. Reiss and A. Stübel.
Nombres Geográficos De Mexico. Catálogo Alfabético de los nombres, etc. By Antonio Peñafiel. 1885.

F. H. CUSHING (the author).

- A Preliminary Report upon the exploration of Ancient Key-Dweller Remains on the Gulf Coast of Florida. 1897.
Discussion and Remarks on Shamanism. 1897.
The need of studying the Indian in order to teach him. 1897.

MRS. R. P. DANA, New York City.

- Two large Folios, Illustrated Scrap Books.

- S. D. DILL, New York City.
 Hardwood. Vol. X, No. 119; XI, XII, Nos. 133, 134. 1897.
 Chicago Hardwood Record. Vol. IV, Nos. 12, 13; V, Nos. 1-4. 1897.
 The Timber Pines of Southern U. S. By Chas. Mohr, Ph.D. 1896.
 Division of Forestry U. S. Circular No. 17. 1897.
- DANIEL DRAPER, Ph.D., Director New York Meteorological Observatory.
 Self-Recording Readings. Jan.-Oct. 1897.
- S. F. EMMONS (the author), Washington, D. C.
 Presidential Address, etc. 1896.
- DUKE OF LOUBAT, New York City.
 Historia Antigua y de la Conquista. By D. A. Chavero. Tome I.
 Manuscrit Troano. Etudes sur le système Graphique et langue de
 Mayas. By M. B. De Bourbourg. Tomes I, II. 1869.
 Relation des Choses De Yucatan De Diego De Landa. By L'Abbé
 B. de Bourbourg. 1864.
 Palenqué et autres ruines de l'ancienne civilisation du Mexique. By
 M. L'Abbé B. de Bourbourg. 1866.
 Codex Peresianus. Manuscrit Hiératique des anciens Indiens de
 l'Amerique Centrale. By L. De Rosny. 1887.
 Essai sur le Déchiffrement de L'Ecriture Hiératique de L'Amerique
 Centrale. By L. De Rosny. 1876.
 The Sculptures of Santa Lucia Coxumalwhupa in Guatamala. By S.
 M. D. Habel. 1878.
 Códice Maya denominado Cortesiano, etc. By D. Je López, etc.
 1892.
 Altmexikanische Studien. By Dr. Ed. Seler. 1890.
 Peruanische Alterthümer, etc. By Dr. Ed. Seler.
 Códice Fernández Leal. By Dr. Antonio Peñafiel. 1895.
 Mémoires sur la Peinture Didactique et L'Ecriture Figurative des
 Anciens Mexicains. By A. Aubin. 1885.
 Die Maya-Handschrift der Königl. Öffentl. Bib., zu Dresden. By
 Prof. E. Förstemann. 3d Sér., 1892. Tome I.
 Archives de la Société Américaine De France. 1st Ser. Tomes I,
 pt. 1; II-IV, 1857-1864; 2nd Ser., I-V, 1875-1887; 3rd Ser.
 Tome I.
 Annuaire. Tomes III, IV. 1875-1889.
 Annuaire du Comité D'Archéologie Américaine. 1863-'65, 1866-'67.
 Christophe Colomb. By Le Comte R. De Lorgues. 1892.
 History of the Expedition under Captains Lewis and Clark to sources
 of Mississippi, etc. By Paul Allen. 1814.
 Pekin, Yeddo, San Francisco. By Le Comte De Beauvoir. 6th Edit.
 1872.
 Java, Siam, Canton. By Le Comte De Beauvoir. 8th Edit. 1873.
 Australia. By Le Comte De Beauvoir. 8th Edit. 1874.
 Promenade dans L'Inde et a Ceylon. By E. Cotteau. 1880.
 En Océanie Voyage Autour du Monde en 365 Jours. 1884-1885,
 By E. Cotteau. 1888.
 Un Touriste dans L'Extreme Orient, Japon, etc., 1881-1882. 2d Edit.
 By E. Cotteau. 1885.
 Le Mexique. By Gaston Routier. 1891.
 L'histoire du Mexique. By Gaston Routier. 1895.
 Das Nördliche Mittel-Amerika. By Dr. Carl Sapper. 1897.
 Internationales Archives für Ethnographie. Bände IX, Hefte 1, v; X.
 I, II, III. 1896.
 Ethnographische Musea in Midden-Europa. 1896.
 Nicaraguan Antiquities. By Carl Bovallius. 1886.

- DUKE OF LOUBAT, New York City.—*Continued.*
 Algunos Puntos y Objetos Monumentales Antiguos del Estado De Guanajuato. By Pedro Gonzales. 1895.
 Fragments d'une Histoire des Études Chinoises an XVIII Siècle. By Henri Cordier. 1895.
 Civilización de algunas de las diferentes tribus que habitaron el territorio Hoy Mexicano en la Antigüedad. By Leopoldo Batres. 1888.
 Voyages du Sr. A. De La Motraye en Europe, etc. 3 Vols. 1727.
 Documents pour servir a L'Histoire du Mexique et Atlas. By Eugène Boban. 2 Vols. 1891.
 Les Galets Colozies du Mas d'Azil. By Ed. Piètte.
 Illustrations of Manners, etc., N. A. Indians. By Geo. Catlin. 7th Edit. 2 Vols. 1848.
 Histoire Naturelle de Lacépède. New Edition. 2 Vols. 1847.
 Œuvres Complètes De Buffon. Tomes I-VI. 1844-1848.
 L'Anthropologie. Vols. I-VII, VIII, 1-4. 1890-1897.
 Historia del Descubrimiento de América. By Emilio Castelar. 1892.
 The New American Cyclopædia. 24 Vols. 1869-1870.
 Galerie Américaine du Musée D'Ethnographie du Trocadéro 1^{ème} Part. By Le Dr. E. T. Hamy. 1897.
 Le Muséum D'Histoire Naturelle (1794). By Le Dr. E. T. Hamy.
- H. C. MERCER (the author), Bucks Co., Pa.
 The Discovery of Aboriginal Remains, etc. 1897.
 An Exploration of Aboriginal Shell Heaps, etc. 1897.
 An Exploration of Durham Cave in 1893. 1897.
 Notes on the Palmer as a reefing district. 1897.
 The Genera of N. A. Melanopli. By Sam H. Scudder. 1897.
 A new Investigation of Man's Antiquity at Trenton. By Arthur Hollick. 1897.
- J. H. MILLER (the author), Mexico, Ind.
 The American Polled Durham Herd Book, etc. 1894.
- HON. LEVI P. MORTON, New York City.
 Eleventh Census U. S., 1895. Report on Insane, etc., in U. S.
 " " " Part II. Vital Statistics. 1895.
 " " " " II. Population. 1897.
 " " " " IV. Statistics of Death. 1896.
- MANDEVILLE MOWER, New York City.
 Club Life. 1897.
 Thirty-third Annual Statement of National Bank of Commerce in N. Y. 1897.
 Mower Genealogy. 1690-1897.
- LIEUT. G. T. EMMONS, Princeton, N. J.
 The Origin and Meaning of the Totem Poles in S. E. Alaska. By F. E. Froese. 1897.
- HON. R. P. FLOWER, New York City.
 War of the Rebellion. Series I, Vols. XLIX, Parts I, II; L, Parts I, II; LI, Part I; Series II, Vol. I. 1897.
- LEWIS W. GUNCKEL (the author), Dayton, Ohio.
 The Direction in which Mayan Inscriptions should be read. 1897.
 The Study of American Hieroglyphs. 1897.
- JOHN P. HAINES, New York City.
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DEPARTMENT OF GEOLOGY, MINERALOGY, CON-
CHOLOGY AND MARINE INVERTE-
BRATE ZOÖLOGY.

GEOLOGY.

PROF. C. E. BEECHER, New Haven, Conn.

2 Models of *Triarthrus Becki*.

W. E. CRANE, Tarrytown, N. Y.

155 Species of fossils, nearly all European, many new to the collection.

WALTER HIRSCH, New York.

1 Specimen of *Orthonota undulata*, very fine. .

- J. P. KIMBALL, Century Co., New York.
 2 Valves of *Schizothaerus Nuttalli*, Con., from Puget Sound.
 4 " " *Saxidomus aratus*, Gould.
 3 " " *Tapes*, sp. ?.
- J. C. MCCOY, 201 West 78th St., N. Y.
 About 100 specimens of Lower Green Marl fossils of the Cretaceous, from Delaware.
- CHARLES E. MONROE, Milwaukee, Wis.
 About 25 specimens of fossils of the Hamilton Shale, from the tunnel under the lake at Milwaukee, Wis.
- REV. S. PARSONS, Paterson, N. J.
 2 Specimens of hypostoma of a Trilobite, *Pteraspis grandis*, from Schoharie grit, loose at Paterson, N. J., figured in Bulletin.
 Also fragments of Pygidium of *Pteraspis grandis*, from Schoharie grit boulder at Paterson, N. J.
 1 Specimen of *Orthoceras stylus* and one specimen of *Philipsastrea Verrucilli*, E. & H., Schoharie grit, found loose at Paterson, N. J.
 2 Blocks of *Orthis testudinaria*, found loose at Paterson, N. J.
- CAPT. A. W. VODGES.
 8 Fossils from Trenton Limestone near Toronto, Canada.

MINERALOGY.

- COPPER QUEEN CONSOLIDATED MINING CO., Bisbee, Ariz.
 Several Stalactites of various forms, and one specimen of polished Stalagmite.
- PROF. JAMES DOUGLASS.
 5 enlarged views of the Copper Queen Mine at Bisbee, Ariz., showing Stalactites, &c., on roof of cave.
- J. F. ELDER.
 42 Geodes from Northwest Missouri.
- J. H. HUNTLEY, Visalia, Cal.
 A triangular piece of Chrysoprase from near Visalia, Cal.
- FRANK KESSLER.
 4 Fragments of California Onyx with polished surfaces.
- R. D. LACOE, Pittston, Pa.
 A nearly entire Aërolite from fall of 12th of Feb., 1875, near Homestead, Iowa Co., Iowa.
- F. C. NICHOLAS.
 5 Specimens of Senarmontite, and the same enclosing unaltered Stibnite, from Mexico.
 A few specimens of Pyrite from a clay bed.
- PROF. H. W. PARKER, New York.
 1 Disc of Marcasite from the coal shale at Sparta, Ill.
- RARE MINERAL MINING CO., 26 Cortlandt St., N. Y.
 3 Specimens of Wolframite, from the Trumbull Mines, Fairfield Co., Conn.
- ERNEST SCHERNIKOW, New York.
 1 Large specimen of Pink Beryl, from Haddam Neck, Conn.
 1 " " " Microcline Feldspar, from Haddam Neck, Conn.
- JOHN H. WINSER.
 3 Discs of Marcasite, from the coal shale at Sparta, Ill.

ERNEST WRIGHT.

10 Specimens of Quartz Crystals associated with and in Calcite, from near Saratoga, N. Y.

J. P. MORGAN, New York City.

1 large specimen of Wulfenite, from Las Cruces, New Mexico.

2 Calcite crystals, from the Pittsburg Mine, near Joplin, Mo.

A group of Calcite with Galena, from the Blakie Mine, No. 2, near Joplin, Mo.

CONCHOLOGY.

W. E. CRANE, Tarrytown, N. Y.

30 or more species of shells, from various localities.

LIEUT. G. T. EMMONS, U. S. Navy.

A collection of marine and land shells.

MISS ANNA PENISTON, Bermuda.

87 Species, or 641 individual shells, from Bermuda.

J. D. SEON, Seward, Bermuda.

1 Specimen of *Cypræa exanthema*, found in Castle Harbor, Bermuda.

INVERTEBRATE ZOÖLOGY.

MRS. W. BLAKE, 265 West 39th St., N. Y.

2 Specimens of Coral, 1 *Madrepora cervicornis*, and 1 *Madrepora palmata*, from West Indies.

ALFRED CABASSUD, 31 Broadway, N. Y.

1 Large Lobster, from the waters off Atlantic Highlands, N. J.

DR. ARNOLD GRAF, Pathological Institute, N. Y.

1 Specimen of Jelly Fish, *Cyanea arctica*.

1 Jar of *Pennaria tiarella*, Polyp.

1 " " *Bugula turrita*, Byozoan.

1 Specimen of *Amaroucium pellucidum*, Ascidian.

1 " " *Botryllus Gouldi*, Ascidian.

1 " " *Lepas anatifera*, Crustacean.

1 " " *fascicularis*, all from Wood's Holl, Mass.

T. HOWELL.

1 Specimen of Coral, Madrepore, from St. Thomas, W. I.

F. C. NICHOLAS.

Several specimens of Coral from Jamaica, W. I.

3 Specimens of Echinoderms.

J. P. RYAN.

7 Specimens of Jelly Fish, *Idyia roseola*, Ag., from Canarsie Bay.

MARSHALL H. SAVILLE.

Crustaceans, Echinoderms, Corals and Shells, from U. S. Colombia.

F. C. Nicholas Collection.

R. P. WHITFIELD.

1 Siliceous monactinoid sponge, from Lower California, and about 200 specimens of Sponges, Gorgonias, Corals, Shells, Echinoderms, Crustaceans, &c., all from Bermuda.

DEPARTMENT OF VERTEBRATE ZOOLOGY.

MAMMALS.

- EDWARD B. ADAMS, Philadelphia, Pa.
2 California Moles, mounted.
- HENRY ALCLIN, Forrest Valley, Ulster Co., N. Y.
1 *Zapus insignis*.
- SPENCER ALDRICH, New York City.
1 Young Otter, mounted.
- JEROME ALEXANDER, New York City.
1 Mexican Hairless Dog.
- H. P. ATWATER, San Antonio, Texas.
1 Pouched Mouse, with one pouch undeveloped; 4 Harvest Mice.
- J. A. BAILEY.
2 Camels, 2 Kangaroos, 1 Indian Elephant, 1 Guanaco.
- JOHN BROOKS, Jalapa, Mexico.
1 *Rhipidomys sumichrasti*.
- C. L. BROWNELL, Nyack, N. Y.
34 Specimens from Florida.
- HON. ALFRED R. CONKLING, New York City.
1 English Bloodhound.
- FRANK M. CHAPMAN, Englewood, N. J.
1 *Zapus hudsonius*.
- C. L. CUNNINGHAM, Fort Klamath, Oregon.
4 Specimens from Oregon.
- MRS. C. W. DEAN, New York City.
1 Marmoset.
- DEPARTMENT OF PUBLIC PARKS, New York City.
19 Monkeys, 1 Puma, 1 Leopard, 2 Ocelots, 2 Foxes, 1 Bear, 2 Raccoons, 1 Harbor Seal, 1 West Indian Seal, 1 Coati, 3 Kinkajous, 5 Nylghaus, 5 Antelopes, 5 Deer, 1 Camel, 1 Woodchuck, 1 Agouti, 1 Kangaroo, 2 Opossums, 2 White Whales. Total, 59 specimens, received in the flesh from the Central Park Menagerie and New York Aquarium.
- MRS. SARAH J. EGBERT, New York City.
2 *Dasyurus ursinus*, mounted.
- MICHAEL ENGLERT, New York City.
Lower jaw of Porpoise, 1 Oryx horn, 9 sets of Deer antlers, 2 mounted heads of Deer.
- JOHN FANNIN, Victoria, B. C.
2 Beavers, from British Columbia.
- MRS. MARY C. FRANKLIN, New York City.
1 Spaniel.
- DR. GEORGE F. GAUMER, Izamal, Yucatan.
6 Small Mammals from Yucatan.
- W. W. GRANGER, New York City.
65 Small Mammals from Wyoming.
- JOSEPH GRINNELL, Pasadena, Cal.
1 Pocket Gopher, from California, in unusual (melanistic) pelage.
- JOSEPH H. HENDERSON, New York City.
1 Large Maltese Cat.

- DR. SAMUEL JENNESS, New York City.
1 Double-headed Kitten, mounted.
- MORRIS K. JESUP, New York City.
4 Eskimo Dogs, from the Peary Expedition.
- MORRIS K. JESUP and JAMES M. CONSTABLE, New York City.
3 Mountain Sheep, including type of *Ovis stonoi*, sp. nov.
- W. E. T. KEYSER, New York City.
1 Monkey.
- ROBERT HOE LAWRENCE, New York City.
1 Skull of *Spilogale*, from Washington.
- EDGAR LEHMAN, New York City.
1 Panda (*Ailurus fulgens*), mounted.
- DR. EDGAR A. MEARNs, U. S. A.
71 Small Mammals from Fort Clark, Texas.
- JOHN MOORE, New York City.
1 Muskrat.
- FRANCIS C. NICHOLAS, New York City.
16 Bats, in alcohol, from Sta. Marta, Colombia.
- CHEVALIER PETICH, New York City.
2 Chihuahua Dogs.
- HENRY C. PRATT, New York City.
17 Small Mammals, from Sta. Marta, Colombia.
- A. C. REMPEN, Para, Brazil.
4 Skulls of Jaguar, from Lower Amazon, Brazil.
- WILLIAM M. RICHARDSON, New York City.
1 Rat.
- JOHN ROWLEY, JR., New York City.
1 Skull of Dog.
- DR. LEWIS NATHANIEL SHIELDS, New York City.
1 Skull of Mountain Sheep, from Idaho.
- R. SHIELDS-ASLACHSEN, London, England.
1 Spider Monkey.
- HARLAN I. SMITH, New York City.
1 Coyote skull, 2 Dog skulls, from British Columbia.
- JOHN H. STARIN, New York City.
2 Sea Lions.
- A. J. STONE, Missoula, Mont.
2 Skulls and 1 head skin of *Ovis stonoi*.
- DR. WILLIAM THURMAN, New York City.
1 Skull of Dolphin.
- MATEO TRUJILLO, Jalapa, Mexico.
7 Specimens, from Jalapa, Mexico.
- EDWARD H. WALES, Hyde Park, N. Y.
1 Albino Deer, from the Adirondacks.
- WILLIAM WALLACE, New York City.
1 Collie Dog, 1 Eskimo Dog.

BIRDS.

- DR. J. C. BARRON, New York City.
1 Great Blue Heron.
- PROF. A. S. BICKMORE, New York City.
1 Parrot, mounted, from the Spice Islands.
- MRS. C. C. BURLINGAME, New York City.
38 Birds' skins, from Oregon and Washington.
- FRANK M. CHAPMAN, Englewood, N. J.
1 *Myadestes obscurus*, 3 House Sparrows.
- S. H. CHUBB, New York City.
2 Nests, with eggs, of *Stelgidopteryx serripennis*, from Palenville, N. Y.
- MRS. W. P. COLGATE, New York City.
1 Crow, mounted.
- JOHN C. CORCORAN, Woods, N. Y.
2 Great Blue Herons.
- DEPARTMENT OF PUBLIC PARKS, New York City.
1 Thrush, 1 Oriole, 1 Sparrow, 1 Woodpecker, 2 Toucans, 3 Eagles, 2 Hawks, 3 Owls, 5 Parrots, 4 Doves, 4 Pheasants, 1 Rail, 1 Bittern, 2 Swans, 1 Gannet, 1 Ostrich. Total, 33 specimens, received in the flesh, from the Central Park Menagerie.
- MICHAEL ENGLERT, New York City.
13 Mounted birds.
- JACOB FREEDMAN, New York City.
1 Three-legged Chicken, living.
- C. H. GRANGER, Rutland, Vt.
2 Hawks.
- W. W. GRANGER, New York City.
1 Murre, from Vermont; 1 Hawk, from Wyoming.
- MORRIS M. GREEN, Syracuse, N. Y.
348 Bird skins, 148 species, and a large collection of birds' eggs.
- D. C. HASKINS, New York City.
1 Hen's egg, showing breakage and repair while in the oviduct.
- MISS D. K. HALLOCK, New York City.
19 Mounted birds.
- W. A. HORN, Melbourne, Australia.
14 Bird skins, from the desert interior of Australia.
- A. C. HUMBERT, New York City.
1 Ptarmigan, from Newfoundland.
- D. P. INGRAHAM, Beulah, Colo.
1 Solitaire, 2 Flycatchers, from Colorado.
- S. JACKSON, New York City.
1 Parrot.
- MRS. JENNIE C. KEATOR, Bensonhurst, N. Y.
1 Great Blue Heron, mounted, from Port Eads, La.
- R. H. LAWRENCE, New York City.
15 bird skins, from Oregon and Washington.
- DR. EDGAR A. MEARNS, U. S. A.
80 Bird skins from Pennsylvania and Virginia, and 307 from Fort Clark, Texas.

- J. B. POTTER, Nyack, N. Y.
9 House Sparrows.
- JOSEPH PRINCE, New York City.
1 Starling.
- CLARENCE B. RIKER, Maplewood, N. J.
2 Bobolinks.
- J. ROWLEY, JR., New York City.
1 Hawk.
- A. SEALE, Stanford University, Cal.
3 Heermann's Gulls, 1 Loon.
- MATEO TRUJILLO, Jalapa, Mexico.
5 Bird skins, from Jalapa, Mexico.
- CHARLES F. WINGATE, New York City.
1 White Java Sparrow.
- REV. CHARLES J. YOUNG, Lansdowne, Can.
1 Egg of the Philadelphia Vireo.

REPTILES.

- CHARLES B. CORY, Boston, Mass.
1 Young Crocodile and 1 young Alligator, mounted, from Florida.
- R. L. DITMARS, New York City.
11 Snakes from the vicinity of New York City, and 1 Snake from Florida.
- DEPARTMENT OF PUBLIC PARKS, New York City.
3 Tortoise-shell Turtles, received in the flesh, from the New York Aquarium.
- J. F. DYE, New York City.
3 South American Snakes, in alcohol.
- MICHAEL ENGLERT, New York City.
1 Skull of large Sea Turtle.
- W. A. HORN, Melbourne, Australia.
Rare Lizards from the interior of Australia, collected on the Horn Expedition.
- DON KELLY, New York City.
1 Horned Toad.
- J. H. LIPSCHITZ, New York City.
1 Jar of South American Snakes.
- W. L. SHERWOOD, New York City.
35 Bottles of Batrachians, from the vicinity of New York City.
- STATEN ISLAND NATURAL HISTORY SOCIETY, Staten Island, N. Y.
5 Jars of Reptiles, from the Lesser Antilles.
- G. M. THOMAS, New York City.
1 Gila Monster, mounted, from Phoenix, Arizona.

FISHES.

DEPARTMENT OF PUBLIC PARKS, New York City.

About 100 specimens of rare Fishes, mostly from New York State.

Received from the New York Aquarium, through the Director Dr.

Tarleton H. Bean.

WILLIAM DUTCHER, New York City.

1 Muscalonge, from Thousand Islands.

MICHAEL ENGLERT, New York City.

1 Large Saw Fish Saw.

DR. ARNOLD GRAFF, New York City.

1 Pipe-fish.

W. A. HORN, Melbourne, Australia.

Rare Fishes, from the interior of Australia, collected on the Horn Expedition.

DEPARTMENT OF ENTOMOLOGY.

THE VERY REV. E. A. HOFFMAN, New York City.

Collection of 475 species, 1,650 specimens, of Butterflies, found in America, north of Mexico.

WILLIAM SCHAUS, Twickenham, England.

8,000 Specimens of Moths, from Europe, Africa, Asia and Australia.

HENRY C. PRATT, New York City.

1 Large Termite or White Ant Hill, from Colombia, collected by Mr. F. C. Nicholas.

1 Large Tree Termite Nest from Hayti, W. I., collected by Mr. F. C. Nicholas.

Several small domes built by Termites, from United States Colombia, collected by Mr F. C. Nicholas.

F. C. NICHOLAS, New York City.

6 Nests of Trap-door Spiders, from Jamaica, W. I.

DR. WILLIAM BARNES, Decatur, Illinois.

150 Specimens of North American Butterflies and Moths.

ERNEST SHOEMAKER, Brooklyn, N. Y.

7 Specimens of Moths from Long Island.

JACOB DOLL, Brooklyn, N. Y.

6 *Schinia brevis*, from Long Island.

1 *Papilio gundlachiana*, from Cuba.

1 *Catopsilia avellaneda*, from Cuba.

JOSEPH KESSLER, Nyack, N. Y.

1 Hornets' Nest (*Vespa maculata*).

DR. RICHARD KUNZE, Phoenix, Arizona.

12 specimens of Moths from Arizona.

R. FELIX BIRCH, New York City.

1 Centipede, from South America.

WILLIAM T. DAVIS, Staten Island.

1 *Pamphila fusca*.

JAMES R. KERLEY, Upper Red Hook, N. Y.

1 Hornets' Nest (*Vespa maculata*).

EDWARD KOHLER, Alpine, N. J.

1 Hornets' Nest (*Vespa maculata*).

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

PROF. J. F. KEMP, Columbia University.

Fragment of the jaw of a fossil mammal from Western Montana.

J. PIERPONT MORGAN.

Complete skull and jaw of *Castoroides Ohioensis* from Pleistocene deposits of Michigan.

BRITISH NORTH AMERICAN TRADING AND EXPLORATION COMPANY.

Molar tooth of a mammoth from the Klondike gold diggings.

DR. A. H. PHELPS, Glens Falls, N. Y.

Molar tooth of a fossil horse, from Rutland, Vt.

DEPARTMENT OF ANTHROPOLOGY.

MORRIS K. JESUP, New York City.

Collections obtained by The Jesup North Pacific Expedition; Archæological collections from Kamloops, Lytton, Spences Bridge, Hammond, and Victoria, British Columbia; Ethnological collections from the Thompson River Indians, from the Chilcotin, Bella Coola, Haida, Kwakiutl, and Nootka; Human skeletons and crania from various parts of British Columbia; Casts and photographs for the exhibit illustrating the physical types of the Indians of British Columbia.

THE DUKE OF LOUBAT New York City.

An extensive archæological collection from Southern Mexico and from Guatemala; Nineteen casts from large Mexican sculptures from the originals in the National Museum of Mexico; Cast of the sculpture known as "The Turtle" in the ruins of Quirigua, Guatemala; from moulds made under the direction of Mr. Alfred Maudslay.

Archæological specimens and photographs, the collection made by Ernest Volk during his explorations of the glacial deposits at Trenton, and of a prehistoric burial place near Trenton, N. J., during the year, under the direction of the Department.

B. TALBOT B. HYDE and F. E. HYDE, JR., New York City.

Archæological collection obtained from the exploration under the direction of the Department, of an ancient pueblo in New Mexico.

MRS. SALLY MORRIS CORY, New York City.

Collection illustrating several features of the life and customs of the Chinese, collected by Mrs. Cory.

GEORGE CASTOR MARTIN, New York City.

An Indian basket from Alaska.

DR. KINGSLEY, Schoharie, N. Y.

Eight Stone implements from Schoharie.

HENRY THURUM, New York City.

Arrow point from Brooklyn.

C. POMA.

Arrows of the Mundurucu Indians of Brazil.

ALBERT KEEN, Huntington, Calvert Co., Md.

Sixty stone implements collected by Capt. Keen in Calvert Co., Md.

- J. C. MARTIN, New York City.
Negro charm from Jamaica.
- ANONYMOUS DONOR.
Eight ethnological objects from the Sioux Indians.
- JAMES DOUGLAS.
A Navajo loom ; a grave tablet from Ancon, Peru.
- WILSON MACY.
Ethnological objects and photographs from Chili.
- M. H. SAVILLE, New York City.
Hammer-stone, from New Mexico.
- A. J. MARTIN, New York City.
Archæological collection from the vicinity of Santa Marta, Colombia,
collected by F. C. Nicholas of the South American Exploration Co.
- EDWARD B. MACY, New York City.
Two stone implements from Denmark.
- WILLIAM E. DODGE, New York City.
Ancient stone urn from the Hebrides.
- MRS. J. CROSBY BROWN, New York City.
A shield from New Britain ; two ear-rings of wire from West Africa.
- ANTONIO REMPEN.
Nine ethnological objects from Brazil.
- HENRY DE MORGAN, New York City.
Six human crania, human fibula, copper bracelet, and nine pottery
vessels, from ancient graves in Russian Armenia.
- JAMES M. CONSTABLE, New York City.
Nine ethnological objects from various countries ; five human skulls
and portions of three skeletons from the New Hebrides.
- CLARENCE B. MOORE, Philadelphia, Pa.
A large pottery urn containing cremated human remains, and a pottery
vessel forming a cover to the urn. Found by Mr. Moore in a
mound in Georgia and described in his memoir.
- J. S. and S. S. EDSALL, Palisade Park, N. J.
Five skulls of negroes.
- J. F. HADLEY, New York City.
Two blankets made of bark-cloth, a pottery vessel and four potsherds
from Ecuador.
- JACQUES REICH, New York City.
Several stone implements from New Dorp, Staten Island.

EXCHANGES.

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DEPARTMENT OF GEOLOGY, Etc.

MINERALOGY.

1	Specimen of Göthite and Calcite,	from Pribram, Bohemia.
1	" " Heteromorphite, Sphalerite, &c.,	" " "
1	" " Bournonite,	" " "
1	" " Calcite on Dolomite,	" " "
1	" " " and Pyrite,	" " "
1	" " Pyrite and Sphalerite,	" " "
1	" " Tetrahedrite, Siderite, &c.,	" " "

1	Specimen of Breunerite, Sphalerite, &c.,	from Schneeberg, Tyrol.
1	" " " " on Sphalerite,	" " " "
1	" " " Calamine and Hydrozincite,	" Raibl, Carinthia.
1	" " " Sphalerite, Galenite, &c.,	" " " "
1	" " " Pyrite,	" " " "
1	" " " Marl, from Kloisternenburg, Lower Austria.	
1	" " " Malachite and Azurite, from Briselegg, Tyrol.	
1	" " " Barite, from Briselegg, Tyrol.	

CONCHOLOGY.

1	Specimen of <i>Unio amygdalum</i> , Lea, from Florida.
1	" " " <i>cista-formis</i> , Lea, from North Carolina.
1	" " " <i>Cunninghami</i> , Wright, from Florida.
1	" " " <i>denigratus</i> , Lea, from Florida.
1	" " " <i>Rutervillensis</i> , Lea, from Texas.
1	" " " <i>similis</i> , Lea, from Georgia.
1	" " " <i>speciosus</i> , Lea, from Texas.

DEPARTMENT OF VERTEBRATE ZOÖLOGY.

MAMMALS.

207 specimens, chiefly from New York, Wisconsin and Florida.

BIRDS.

65 specimens from the Philippine Islands ; 100 specimens from coast of California.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

FROM THE PALÆONTOLOGICAL MUSEUM OF MUNICH, through Prof. Carl von Zittel.

Representing the Upper Eocene, Oligocene, Miocene, Pliocene and Pleistocene animals of Europe, principally horses, anoplotheres, palæotheres, antelopes, carnivores and rodents. Altogether 357 specimens, representing 87 different species, of fossil Mammals, and 4 specimens, representing 4 species, of fossil Birds.

MUSEUM OF PRINCETON UNIVERSITY.

Casts of brains of four fossil mammals and of the forefoot of one.

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DEPARTMENT OF GEOLOGY, ETC.

6 specimens of Cretaceous fossils, from Marathon, Brewster Co., Texas.
 53 different lots of Upper Miocene fossils, from the deep wells at Galveston, Texas.

THROUGH MUSEUM EXPEDITIONS.

A number of fossils from a carbonaceous clay at Tuxpan, Mexico, collected by Dr. Lumholtz.
 7 species of Jurassic fossils from rock of this age at Freezeout, Albany Co., Central Wyoming, collected by Dr. Wortman.

DEPARTMENT OF ANTHROPOLOGY.

Three specimens from West Africa (from Péné Collection), Figurine made of silver, gold and copper, from Bolivia (from Muñoz Collection). Iroquois war club (from Muñoz Collection).
 Five human crania from Solomon Islands (collected by P. E. Wolff).
 Nineteen native carvings from Alaska (Emmons Collection).

THROUGH MUSEUM EXPEDITIONS.

IN PERU AND BOLIVIA, by A. D. Bandelier.

Numerous archaeological specimens obtained during the explorations of ancient ruins and burial places in the vicinity of Lake Titicaca, and on the islands in the lake. Also many drawings and photographs made in connection with the explorations. These collections contain many pottery vessels, stone implements, ornaments and implements of copper and other metals, and a large lot of human crania, including many that had been trephined and having other peculiarities.

IN MEXICO, by Carl Lumholtz.

Ethnological collections from the Cora, Huichol and Tarasco Indians ; Human skeletons and crania from various places in Mexico, and numerous other objects secured during his expedition.

IN BRITISH COLUMBIA, by James Teit.

Ethnological collection from the Thompson River Indians.

IN NEW YORK, by Caspar Mayer.

Life masks and photographs of Iroquois Indians at Lawton.

The collections obtained in British Columbia by the Jesup North Pacific Expedition ; in New Mexico and Colorado by the Hyde Expedition ; and in New Jersey by the Loubat Explorations, while carried on under the direction of the Department, were paid for in full by the parties named and are recorded under donations.

DEPARTMENT OF VERTEBRATE ZOÖLOGY.

MAMMALS.

106 specimens, chiefly from New York State.

THROUGH MUSEUM EXPEDITIONS.

219 specimens, mostly from Mexico and California.

BIRDS.

289 specimens, from the State of Vera Cruz, Mexico.

THROUGH MUSEUM EXPEDITIONS.

15 specimens, mostly from New York State.

DEPARTMENT OF ENTOMOLOGY.

Transformations of African Termite or White Ant (*Termes bellicosus*).

Transformation of Large Yellow Hornet (*Vespa crabro*).

75 North American Butterflies.

30 specimens of insects from Brazil.

Large Ant Hill, from New Jersey.

DEPARTMENT OF GEOLOGY, ETC.

MINERALOGY.

A doubly terminated crystal of Quartz showing several bubbles, from Mazela, Guerrero, Mexico.

A quantity of cave specimens, including one large group of peculiar Calcites and several capped groups, from pools in the Copper Queen Consolidated Mines at Bisbee, Arizona.

1 specimen of Vanadinite, from Hillsboro, New Mexico.

1 " " Pollucite, from near Paris, Maine.

1 " " Hamlinite, " " " "

1 " " Montmorillonite, from near Paris, Maine.

1 " " Tridymite, from San Pietra, Italy.

CONCHOLOGY.

1 specimen of *Pleurotomaria Beyrichi*, from Japan.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

Series of twenty-three casts of brains of modern Mammals, from Ward's Nat. Sci. Establishment.

Complete skeleton of a large Swimming Lizard (*Liodon*), twenty-eight feet long, from the Cretaceous Beds of Western Kansas.

FROM FIELD EXPEDITIONS INTO

(1) JURASSIC BEDS OF WYOMING.

A large part of the skeletons of two gigantic Dinosaurs, estimated at 50-60 feet in length, and fifteen boxes of rock containing small mammal jaws and bones.

(2) **PLEISTOCENE BEDS OF NEBRASKA.**

Skull and skeleton bones of a large Ground Sloth (*Mylodon*), great numbers of bones from all parts of the skeleton of the extinct Horse (*Equus excelsus*), many bones of extinct Camels, tusks and teeth of the Mammoth, and some bones of rarer animals.

(3) **EOCENE OF HUERFANO BASIN, Colorado.**

Twenty specimens of Eocene Mammals, including parts of the skeleton of *Tillotherium*, skull and jaws of a new species of *Oxyaena* and lower jaw of *Patriofelis*.

(4) **CRETACEOUS BEDS OF KANSAS.**

Ninety specimens of Reptiles and Fishes, including more or less complete skeletons of *Pteranodon*, *Clidastes* and *Protostega*, skulls of *Platecarpus*, *Pteranodon* and several kinds of fish.

CONSTITUTION
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY,
IN THE CITY OF NEW YORK.

ARTICLE I.

This Corporation shall be styled the AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II.

The several persons named in the charter, and such others as they may add to their number, which shall not exceed twenty-five in all at one time, shall be the Trustees to manage the affairs, property, and business of the Corporation, and in case of the death or accepted resignation of any Trustee, a new Trustee shall be elected to fill his place by the remaining Trustees ; but no election of a Trustee shall be held except at a quarterly meeting of the Trustees, on written notice of not less than one week, specifying that such election is to be held, and the vacancy which is to be filled ; and every election of Trustees shall be by ballot, and no person shall be deemed to be elected a Trustee unless he shall receive the votes of at least three-fourths of the Trustees present.

ARTICLE III.

The Trustees shall meet quarterly, on the second Monday of every February, May, August and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever

requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

ARTICLE IV.

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, and a Treasurer, all to be elected from the Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other Committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

ARTICLE V.

SECTION 1. The President shall have a general supervision and direction over the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act the First or Second Vice-President shall act in his place.

SEC. 2. The Secretary shall be appointed by the Board of Trustees. He shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its directions, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the Annual Meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under their direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

SEC. 5. The office of Secretary and of Assistant Treasurer may be held by the same person.

ARTICLE VI.

The Executive Committee shall consist of nine, of whom the President, First and Second Vice-Presidents, and Treasurer shall be four. The five members of the Executive Committee, elected in February, 1887, shall forthwith draw lots for terms of one, two, three, four, and five years, respectively, and the terms for which those drawing the two, three, four, and five years, respectively, were elected, are hereby extended to cover those periods; and hereafter at each annual election one member of the Executive Committee shall be elected to serve for five years. They shall have the control and regulation of the Collections, Library and other property of the Museum; and shall have power to purchase, sell, and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two

thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

ARTICLE VII.

The Auditing Committee shall consist of three Trustees. It shall be their duty to examine and certify all bills presented against the Corporation, and no bills shall be paid unless first approved by the President, or the Chairman of the Executive Committee, in writing, and by at least one member of this Committee.

They shall also have the books of the Museum duly audited at least once in six months by an authorized public accountant to be selected by them.

ARTICLE VIII.

The Finance Committee shall consist of four, including the Treasurer. It shall be their duty to take charge of and invest the funds of the Museum in its name and to take all proper measures to provide means for its support ; and they shall have the sole custody of the securities belonging to the invested funds of the Museum, subject to the order of the Board of Trustees.

ARTICLE IX.

The Nominating Committee shall be composed of three, to whom shall be first submitted the name of any person proposed as a candidate for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as they may deem to be for the interest of the Museum.

ARTICLE X.

The President shall be a member, *ex-officio*, of all standing committees.

ARTICLE XI.

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact

current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

ARTICLE XII.

By-Laws may from time to time be made by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

ARTICLE XIII.

The contribution of \$1000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of the above degrees, who shall have given to the Museum books or specimens, which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

ARTICLE XIV.

Any person who has held the office of President for ten or more successive years may be elected by the Trustees as Honorary President for life.

ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees ; or at a special meeting called for this purpose, nor by the votes of less than a majority of all the Trustees ; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

BY-LAWS.

I.

Patrons, giving \$1000, are each entitled to one Subscriber's Ticket, 5 Complimentary Season Tickets, and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket, and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket, and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

II.

Any Trustee who shall fail to attend three consecutive Regular Quarterly Meetings of the Board shall cease to be a Trustee, unless excused by the Board.

III.

No gentleman shall hereafter be eligible to the position of a Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board—excepting Trustees *ex-officio*—nor be eligible unless his name shall be presented by the Nominating Committee at a Regular Quarterly Meeting prior to the meeting at which said election shall take place.

IV.

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

V.

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

VI.

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

VII.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

VIII.

At such times as it may be impracticable to obtain the services of the members of the Auditing Committee, the members of the Executive Committee may act in their place and stead.

PATRONS.

MORRIS K. JESUP.
ROBERT L. STUART.*
Miss C. L. WOLFE.*
ROBERT GOLGATE.*
FREDERIC W. STEVENS.
PERCY R. PYNE.*
JAMES M. CONSTABLE.
JOHN B. TREVOR.*
ADRIAN ISELIN.
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D. JACKSON STEWARD.
EDWARD CLARK.*
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JAMES BROWN.*
A. T. STEWART.*
S. WHITNEY PHOENIX.*
BENJAMIN H. FIELD.*
WILLIAM T. BLODGETT.*
OLIVER HARRIMAN.
ROBERT BONNER.
JAMES B. COLGATE.
ALEXANDER STUART.*
WILLIAM A. HAINES.*
BENJAMIN AYMAR.*
RICHARD ARNOLD.*
JOSEPH H. CHOATE.
JONATHAN THORNE.*
Miss PHEBE ANNA THORNE.
D. O. MILLS.
JOHN A. C. GRAY.
HEBER R. BISHOP.
CHAS. G. LANDON.*
WILLIAM E. DODGE.
PETER COOPER.*
WILLIAM H. ASPINWALL.*

B. H. HUTTON.*
J. TAYLOR JOHNSTON.*
D. N. BARNEY.*
I. N. PHELPS.*
JAMES STOKES.*
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EDWARD MATTHEWS.
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JAMES LENOX.*
A. H. BARNEY.*
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OSWALD OTTENDORFER.
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H. J. JEWETT.
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D. G. ELLIOT.
Lieut. G. T. EMMONS, U.S.N.
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WILLIAM C. SCHERMERHORN.
JOHN J. CROOKE.
HENRY SELIGMAN.
RICHARD T. WILSON.
JOHN E. PARSONS.
FRANCIS O. MATTHIESSEN.

* Deceased.

A. J. FORBES-LEITH.
 GEORGE BLISS.*
 M. C. D. BORDEN.
 ARCHIBALD ROGERS.
 GEORGE C. COOPER.*
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 APPLETON STURGIS.
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 JAMES BAKER SMITH.
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 ANSON W. HARD.
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 ELBRIDGE T. GERRY.

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 MRS. WM. H. OSBORN.
 PROF. HENRY FAIRFIELD OSBORN.
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 VICTOR CORSE THORNE.
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* Deceased.

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Abegg, J. H.	Bawden, Wm.	Bradley, S. R.
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	Bloodgood, John H.	Calman, Henry L.
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Barney, Chas. T.		

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| Cleveland, Treadwell | Delafield, Maturin L. | Flagler, John H. |
| Clinch, Edward S. | Dewitt, William G. | Fletcher, Andrew |
| Cochrane, John W. | Dickie, E. P. | Flint, Miss Helena |
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| Coffin, Edmund | Dieterich, Chas. F. | Flower, Frederick S. |
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| Colgate, R. R. | Dodge, Cleveland H. | Foster, Scott |
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| Collins, Miss M. M. | Dodge, Miss Grace H. | Fraser, Alfred |
| Compton, A. T. | Dodge, Mrs. Wm. E., Jr. | Frazer, Wm. C. |
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| Crocker, George Aug. | Du Bois, William A. | Gibb, John |
| Cross, Richard-J. | Duncan, John P. | Gilberg, Charles A. |
| Cruger, S. V. R. | Dunham, G. H. | Gillis, Chas. J. |
| Cummings, Richard | Dunlap, Robert | Goddard, F. N. |
| Cutting, Robt. Fulton | | Godfrey, Chas. H. |
| Cutting, W. Bayard | | Godkin, Edwin L. |
| | Eimer, August | Goldschmidt, Geo. B. |
| | Einstein, David L. | Gosler, G. H. |
| Daly, Chas. P. | Elder, Mrs. M. A. | Gotthold, Fred. |
| Davenport, Ira | Elliott, Edward | Grace, Wm. R. |
| Davies, William G. | Ellis, John W. | Gracie, J. K. |
| Davis, Benjamin P. | Ellsworth, Wm. W. | Graham, Malcolm |
| Davis, Joseph P. | Eno, Amos F. | |

- Greacen, Robert A.
 Greenwood, Isaac J.
 Gregory, Chas. E.
 Guggenheimer, Randolph
 Gulliver, William C.
 Gurnee, W. S.

 Haber, Louis I.
 Hague, James D.
 Hall, Mrs. John H.
 Halls, William, Jr.
 Halsted, Miss Mary M.
 Hamilton, John L.
 Hardenbergh, J. P.
 Hardt, William Ernest
 Hartley, Marcellus
 Havemeyer, J. C.
 Haven, J. Woodward
 Haviland, Edwin
 Hawley, Edwin
 Hawley, Henry E.
 Hayden, Brace
 Hayes, R. Somers
 Haynes, A. E.
 Hedges, James
 Hegeman, John R.
 Heminway, Homer
 Hendricks, Edmund
 Heroy, Mrs. James H.
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 Hill, Geo. H. B.
 Hill, James K.
 Hilyard, George D.
 Hinchman, Walter
 Hinman, W. K.
 Hinton, J. H., M.D.
 Hoadly, George
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 Holden, E. R.
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 Holt, Henry
 Holt, Miss Lydia C.
 Holt, R. S.
 Horton, Burrett W.
 Hoyt, Chas. A.

 Hoyt, Dr. Ezra P.
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 Hutton, F. R.
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 Iselin, C. Oliver
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 Jackson, John B.
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 Jaffray, Robert
 Jaques, George B.
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 Jones, H. Le Roy
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 Juilliard, A. D.

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 Kellogg, L. Laftin
 Kellogg, Mrs. Chas.
 Kemp, Edward
 Kendall, Edward H.
 Kennedy, John S.
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 Kevan, William
 Kimbel, Henry
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 Lange, J. D.
 Langmann, G., M.D.
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 Lapham, S. V.
 Lathers, Richard
 Lavelle, Rev. Michael J.
 Lawrence, Cyrus J.
 Lawrence, Mrs. Samuel
 Layng, James D.
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 Lehman, E.
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 Littlefield, Frederick M.
 Livingston, Edward
 Livingston, H. T.
 Livingston, Wm. S.
 Lobenstine, W. C.
 Lockman, Jacob K.
 Loeb, S.
 Loewi, Valentine
 Lorbacher, Edmund
 Lord, Benjamin
 Lord, Mrs. D. D.
 Louis, Chas. H.
 Lounsbery, R. P.
 Low, C. Adolphe
 Ludington, C. H.
 Lueder, A.
 Lummis, Wm.
 Lyman, T. C.

- | | | |
|----------------------------|---------------------------|--------------------------|
| Mack, J. W. | Moss, John H. | Pray, Joseph M. |
| Maackenzie, Duncan E. | Navarro, Juan N. | Purdy, Wm. Macneven |
| Mackey, Oscar T. | Nathan, Miss Agnes C. | Putnam, George L. |
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| Man, William | | Quinlan, William J., Jr. |
| Mansfield, Howard | Ogilvie, James H. | |
| Marble, Cyrus C. | Oloott, E. E. | Ranger, Louis |
| Markoe, Dr. Thos. M. | Oloott, F. P. | Raymond, Charles H. |
| Marlor, Henry S. | Olmstead, Dwight H. | Reilly, James |
| Marshall, Charles H. | Olyphant, R. M. | Renwick, Edward S. |
| Martin, W. M. | Olyphant, Robert | Rhineland, Chas. E. |
| May, Calvin S., M.D. | Oppenheimer, Dr. H. S. | Rhoades, J. Harsen |
| McAlpin, C. W. | Owen, Mrs. Thomas J. | Richard, Auguste |
| McAlpin, D. H. | Owens, Wm. W. | Riker, John L. |
| McCabe, Rev. C. C. | | Riker, Samuel |
| McComb, J. Jennings | Packard, S. S. | Riker, Wm. J. |
| McCready, Mrs. Caroline A. | Paddock, Eugene H. | Rising, Dr. J. Converse |
| McCurdy, Richard A. | Palmer, N. F. | Robbins, Rowland A. |
| McDonald, John E. | Palmer, S. S. | Robbins, S. Howland |
| McGee, James | Park, Joseph | Roberts, Miss Mary M. |
| McIntyre, Ewen | Parrish, James C. | Rogers, Henry H. |
| McKee, Russell W. | Parsell, Henry V. | Rolston, Rosewell G. |
| McKim, Rev. Haslett, Jr. | Parsons, Mrs. Edwin | Roosevelt, Charles H. |
| McLean, George H. | Parsons, Joseph H. | Roosevelt, W. Emlen |
| Mead, Theo. H. | Parsons, W. H. | Root, Elihu |
| Merrall, William J. | Patterson, Edward | Rothschild, J. |
| Metcalf, John T., M.D. | Peabody, Arthur J. | Rothschild, V. Henry |
| Meyer, Thomas C. | Peck, Charles E. | Rowell, George P. |
| Middleton, A. D. | Pell, Frederick A. | Rowland, George |
| Mildeberger, Mrs. John | Pell, John H. | |
| Miller, D. S. | Pellow, Henry E. | Sage, Russell |
| Miller, Geo. Macculloch | Penfold, Wm. Hall | Saltonstall, Francis G. |
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| Mitchell, John J. | Peters, Samuel T. | Sands, Daniel C. |
| Mitchill, Mrs. S. L. | Peters, W. R. | Sands, Mrs. B. Aymar |
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| Moore, Mrs. W. D. | Pinkus, F. S. | Schaeffer, Hermann |
| Moore, W. H. H. | Platt, Isaac S. | Schafer, Samuel N. |
| Morgan, George H. | Platt, John R. | Schafer, Simon |
| Morgan, John | Powel, de Veaux | Schastey, George A. |
| Morris, Henry Lewis | Powell, Wilson M. | Schefer, Carl |
| Morrison, George A. | | |

- Scheitlin, Edward
 Schmid, Mrs. August
 Schultz, Carl H.
 Schultze, John S.
 Schwab, Hermann C.
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 Scribner, Mrs. J. Blair
 Scudder, Hewlett
 See, Mrs. Horace
 Seligman, Isaac N.
 Sellew, T. G.
 Sennett, George B.
 Seton, William
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 Sherman, Charles A.
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 Sill, Charles
 Simpson, John Boulton
 Simpson, John W.
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 Sloan, Samuel
 Smith, Adon
 Smith, Charles S.
 Smith, Geo. W.
 Smith, James Rufus
 Smith, John Jewell
 Smith, Rev. Cornelius B.
 Smith, William Alex.
 Smith, W. Wheeler
 Smyth, Philip A.
 Snow, Elbridge G.
 SooySmith, Charles
 Stachelberg, Mrs. M.
 Stanton, John
 Stanton, J. R.
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 Stearns, John Noble
 Stebbins, Jas. H.
 Stechert, Gustav E.
 Steers, Edward P.
 Steers, Henry
 Stephens, Benjamin
 Stern, Benjamin
 Stewart, Lispenard
 Stewart, William R.
 Stickney, J.
- Stiehl, Gustav H.
 Stone, Edwin
 Stone, Mason A.
 Stone, Mrs. Catherine C.
 Stone, Mrs. Georgiana C.
 Stone, Sumner R.
 Storm, Clarence
 Storm, George
 Strong, Wm. L.
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 Taintor, Charles N.
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 Talmadge, Henry
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 Taylor, George
 Taylor, Stevenson
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 Tefft, Wm. E.
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 Thompson, W. Prall
 Tiemann, Daniel F., 8d
 Tierney, Myles
 Tiffany, Louis C.
 Tillinghaast, W. H.
 Titus, E., Jr.
 Toel, William
 Tonnelé, John L.
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 Townsend, R. H. L.
 Townsend, R. W.
 Tracy, J. Evarts
 Trevor, H. G.
 Trevor, Mrs. John B.
 Troesch, A. F.
 Turnure, Lawrence
 Tuttle, Nathaniel
 Twombly, H. McK.
 Ullmann, E. S.
- Valentine, Mrs. Lawson
 Valentine, Wm. A., M.D.
 Van Brunt, Cornelius
 Van Brunt, Hon. C. H.
 Van Ingen, Edward H.
 Van Norden, Warner
 Van Pelt, G. S.
 Van Santvoord, A.
 Van Vleck, Joseph
 Van Winkle, A. S.
 Van Winkle, Edgar B.
 Van Winkle, Miss E. S.
 Vandervoort, W. L.
 Veit, Richard C.
 Voorhis, Wm. W. L.
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 Walker, William I.
 Wallace, Lewis
 Wallach, Antony
 Ward, Lebbeus B.
 Ward, Mrs. Thomas
 Wardwell, Wm. T.
 Warner, Lucien C.
 Waterbury, John I.
 Watson, Miss Emily A.
 Weatherbee, Mrs. E. H.
 Webb, W. H.
 Weed, Benjamin
 Weed, Geo. E.
 Weekes, John A.
 Wehrhane, Chas.
 Westcott, Robert E.
 Wetherbee, Chas. L.
 Wetmore, Dr. John McE
 Wheelock, Dr. W. E.
 Wheelock, Geo. G., M.D.
 Wheelock, Wm. A.
 Whipple, L. Edmund
 White, Horace
 Whitehead, Charles E.
 Whitely, James
 Whitney, Alfred R.
 Wicke, William
 Wickes, Edward A.
 Wickham, Delos O.

Annual Members.

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Wiebusch, Chas. F.	Wing, John D.	Young, Edward L.
Williams, George G.	Witherbee, Frank S.	Young, Reginald
Williams, Richard H.	Wood, Mrs. Henry R.	
Wills, Charles T.	Woodward, F. F.	Zabriakis, Andrew C.
Wilmurt, Thos. A., Jr.	Wray, Miss Cornelia S.	Zickel, S.
Wilson, George	Wright, Benjamin	Zinsser, Aug.
Wilson, John	Wright, Miss F. E.	Zinsser, Wm., J.,
Wilson, Washington	Wursburger, A.	Zollikoffer, O. F.

DECEASED ANNUAL MEMBERS,

1897.

Abbott, Frank, M.D	Goldenberg, Simon	Plyer, Charles W.
Baldwin, C. C.	Goodridge, Frederick	Potter, Howard
Bell, Isaac	Hillhouse, Thos.	Randall, Otis W.
Blatchford, Samuel M.	Hinrichs, Chas. F. A.	Scholle, Jacob
Bliss, George	Houghton, Rev. G. H.	Seligman, David J.
Butler, Charles	Iselin, Mrs. Adrian	Shethar, Samuel
Colgate, Samuel	Ketcham, E.	Skidmore, William L.
Dickey, Charles D.	Knickerbacker, H.	St John, William P.
Ehrmann, Julius	Lehman, M.	Strong, Charles E.
Fleet, Oliver S.	Lusk, William T., M.D	Thorn, Mrs. William K.
Fosdick, Chas. B.	Morrison, Edward	Toplitz, L.
Goelet, Ogden	O'Donohue, Joseph J.	Van Slyck, W. H.
		Worthen, W. E.

In Memoriam.

At the Regular Quarterly Meeting of the Board of Trustees of the AMERICAN MUSEUM OF NATURAL HISTORY, held May 10th, 1897, the following minute in regard to the death of

THEODORE A. HAVEMEYER

was unanimously adopted, ordered to be recorded in full, and that a copy be sent to the family of the deceased :

The Trustees, with the deepest regret, record on their minutes their sincere sorrow at the death of their friend, THEODORE A. HAVEMEYER.

Mr. HAVEMEYER was a valued associate, whose interest in the growth and advancement of this Institution was constant and helpful.

His financial assistance was always generous, and his counsel wise and invaluable.

As a member of the Auditing Committee, of which he became a member in 1892, at the time of his election to the Board, his association with the practical affairs of the Museum was intimate, and in that capacity his keen sense of responsibility conferred upon his services an especial value.

The Trustees, conscious of the deep loss his death implies to the interest they represent, desire to record their earnest tribute to a character that was generous and amiable, and endowed with the most honorable qualities of manhood, that they deplore his loss, recognizing how sustained was his assistance in their purpose of public education, how serviceable was his counsel, and how unstinted his financial aid ; that they earnestly extend to his bereaved family their sympathy and condolence, and with deference to their sorrow, express the hope that to them, the inspiring remembrance of his many virtues will be a consolation in their deep affliction.

FORM OF BEQUEST.

*I do hereby give and bequeath to "THE AMERICAN MUSEUM OF
NATURAL HISTORY," in the City of New York,*

.....

.....

30

120
31.5.3

THE
American Museum of Natural History

CENTRAL PARK, NEW YORK CITY.

(77th Street and Central Park, West.)



ANNUAL REPORT OF THE PRESIDENT,

TREASURER'S REPORT,

LIST OF ACCESSIONS,

ACT OF INCORPORATION,

CONSTITUTION,

BY-LAWS AND LIST OF MEMBERS

FOR THE YEAR 1898.

PRINTED FOR THE MUSEUM.

Case

Shelf

HARVARD UNIVERSITY.



LIBRARY

OF THE

PEABODY MUSEUM OF AMERICAN
ARCHÆOLOGY AND ETHNOLOGY.

GIFT OF

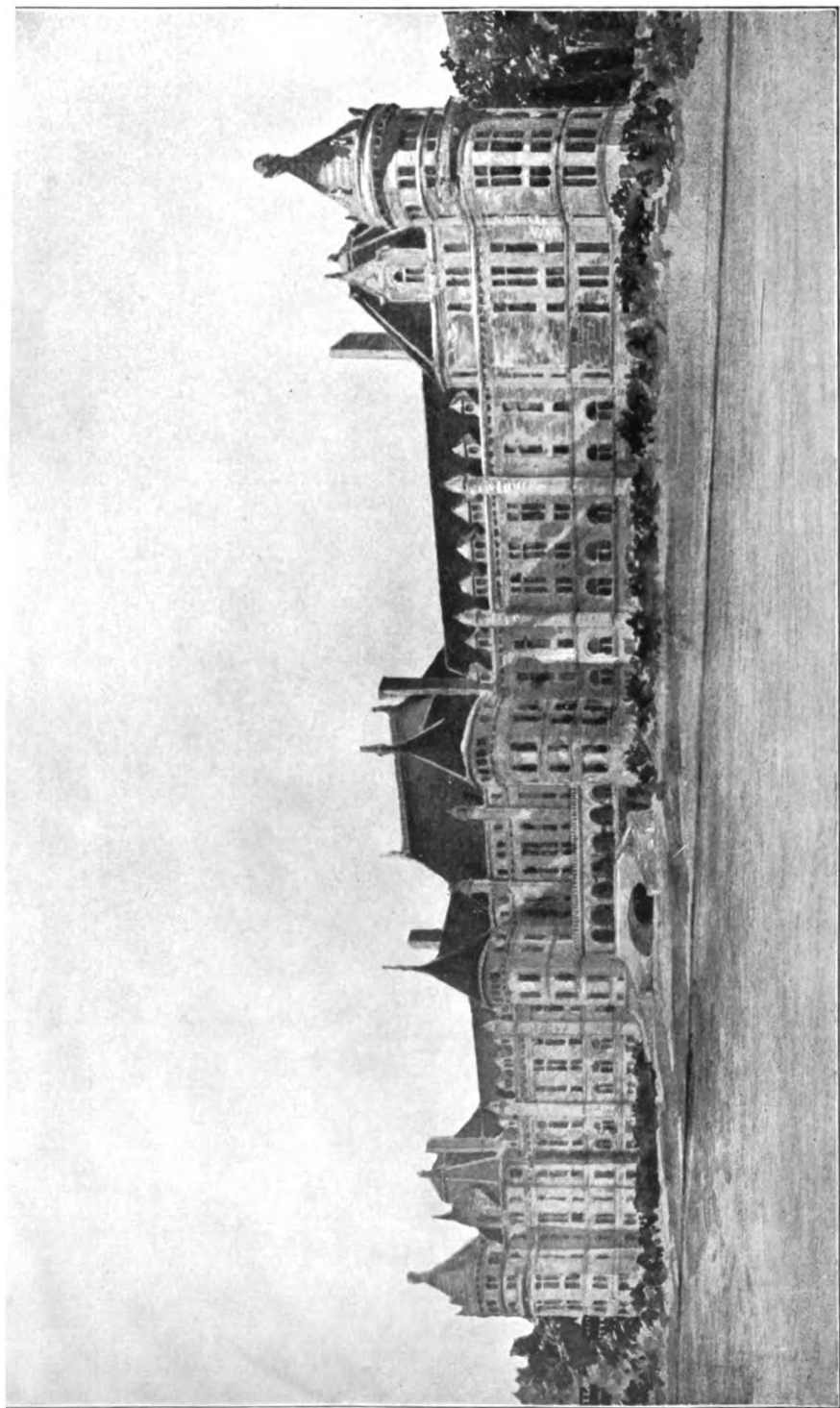
the Museum

—

Received

June 1, 1899.

**THE
AMERICAN MUSEUM OF NATURAL HISTORY.**



PERSPECTIVE VIEW OF SOUTH FRONT OF MUSEUM, SEVENTY-SEVENTH STREET.

From a Drawing by Cadv, Berg and See, Architects.

AMERICAN MUSEUM OF NATURAL HISTORY

INCORPORATED 1869

CENTRAL

REPORT

1898

ANNUAL REPORT

TREASURER'S REPORT

ACT OF INCORPORATION

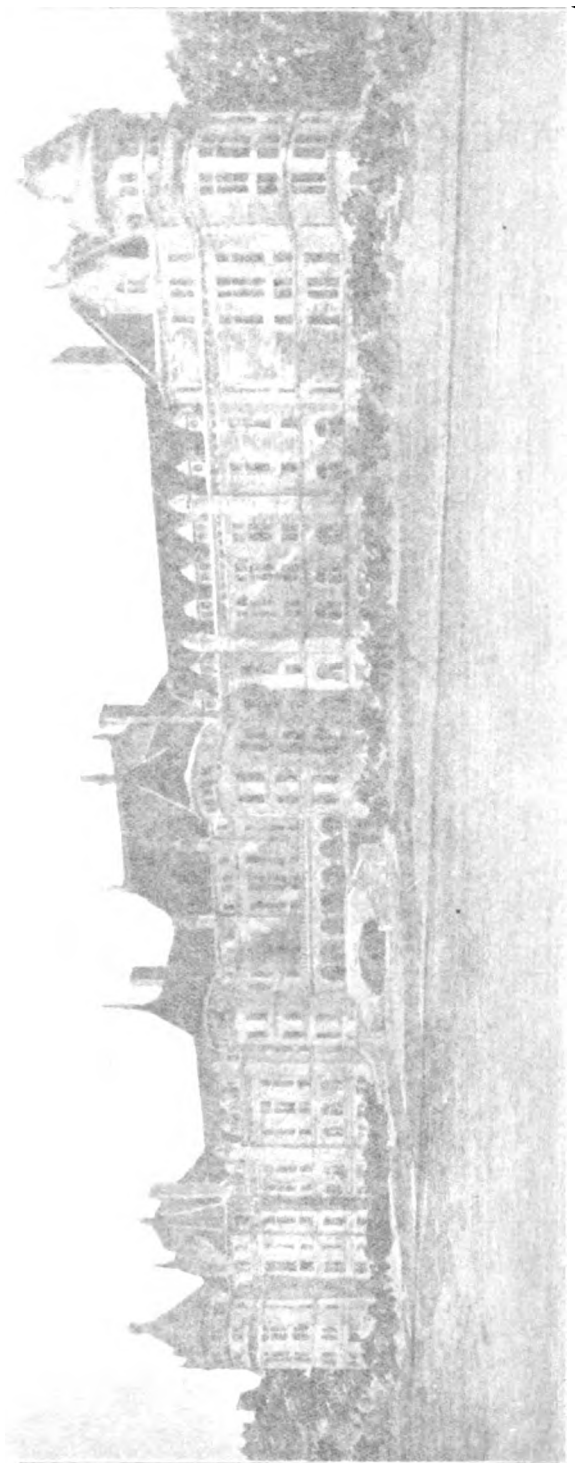
BY-LAWS AND REGULATIONS

FOR THE YEAR 1898



NEW YORK

PRINTED BY THE MUSEUM



THE
AMERICAN MUSEUM OF NATURAL
HISTORY,

CENTRAL PARK, NEW YORK CITY.

(77th Street and Central Park, West.)

31

ANNUAL REPORT OF THE PRESIDENT,
TREASURER'S REPORT, LIST OF ACCESSIONS,
ACT OF INCORPORATION, CONSTITUTION,
BY-LAWS AND LIST OF MEMBERS

FOR THE YEAR 1898



NEW YORK:
PRINTED FOR THE MUSEUM.

1899.

THE KNOKERBOOKER PRESS, NEW YORK

RECEIVED,
JUN 1 1899
PEABODY MUSEUM.

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1899.

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Dr. FRANZ BOAS,
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A. WOODWARD, Ph.D.

SUPERINTENDENT OF BUILDING.

WILLIAM WALLACE.

FORM OF BEQUEST.

*I do hereby give and bequeath to "THE AMERICAN MUSEUM OF
NATURAL HISTORY," of the City of New York,*

.....

.....

THIRTIETH ANNUAL REPORT.

To the Trustees and Members of the American Museum of Natural History:

I present herewith my annual report of the progress of the Museum for the year ending December 31, 1898.

The Budget for the year, approved at the Annual Meeting of the Trustees, showed an estimated deficit in the receipts of \$21,346, of which \$15,152 was for account of Maintenance, and \$6,194 for Endowment.

Attention is directed to the details of the Treasurer's report on pages 28-31.

ADDITIONS TO THE BUILDINGS.—The construction of the additions to the east and west wings and of the new lecture hall have steadily progressed. Some delay occurred, however, by reason of the uncertainty regarding the limit of the City debt, and the difficulty in securing the granite as rapidly as was required. As a consequence the buildings are not in as forward a state of preparation as was predicted in my report of last year; but it is now expected and hoped that the buildings will be completed during the year 1899.

LEGISLATION.—A law was passed at the session last year entitled Chapter 303 of the Laws of 1898, by which Section 3 of the Act of Incorporation was amended to read as follows:—
“Said corporation may take and hold by gift, devise, bequest, purchase, or lease, either absolutely or in trust, for any purpose comprised in the objects of the corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.”

By its terms the Trustees are not restricted in the amount of real and personal estate which they may hold for the endowment of the Institution.

At the Annual Meeting held in February last, Messrs. H. O. Havemeyer and A. D. Juilliard were elected Trustees.

MEMBERSHIP.—Messrs. A. D. Juilliard and H. O. Havemeyer became "Patrons"; and Messrs. Samuel R. Betts, Frederick Billings, Banyer Clarkson, Henry H. Cook, Cleveland H. Dodge, Carl Eickemeyer, James B. M. Grosvenor, Bernard G. Gunther, Wm. F. Havemeyer, Arthur Curtiss James, Joseph Loth, John G. Moore, Francis Lynde Stetson, Miss Matilda W. Bruce, and Mrs. Wm. M. Macy, Jr., were elected "Life Members."

We have lost by death during the year Dr. Wm. Pepper, H. J. Jewett, and John A. C. Gray, "Patrons"; and Robert G. Remsen, and George Garr, "Life Members." A list of the deceased annual contributors is incorporated at the close of the report.

It became my sad duty to announce at the Annual Meeting of the Trustees the death of our esteemed associate, Daniel Jackson Steward.

Mr. Steward was one of the incorporators of the Museum, and for twenty-nine years had served the interests of the Institution with enthusiasm and fidelity in all that tended to promote its educational and scientific advancement. He lived to see its remarkable growth and the wide extent of its influence.

The large and important collection of shells made by him and donated to the Museum, and which bears his name, is now on exhibition in the upper hall of the main building.

ACCESSIONS.—The numerous accessions received during the year are recorded in detail in the later pages of the report.

The Museum is indebted to the Duke of Loubat for donations to the Department of Anthropology, and the Library. He has defrayed the expense of making casts from the great monoliths and sculptures of Quirigia, Santa Lucia, and other places in Guatemala; from Copan in Honduras; and from many of the sculptures in Mexico; he has provided the means for the continuance of this work to such an extent that the Museum will receive a full series of the casts from the Peabody Museum moulds. He has also presented many large photographs of various sculptures and hieroglyphic slabs in Central America, and given copies of the Codex Vaticanus and Codex Borgiano, which he has had reproduced.

By the gifts of the Duke of Loubat, through Museum expeditions, and by the purchase of specimens the Museum now offers

to the student of Mexican and Central American Archæology unrivalled opportunities for the study of the sculptures and hieroglyphic writings of the ancient peoples of these portions of America.

The investigation of the glacial deposits in the Delaware Valley, near Trenton, has been continued for more than a year under the patronage of Dr. Frederick E. Hyde and has resulted in the addition of very important material to the Department of Anthropology.

Dr. Franz Boas, assistant curator in charge of the ethnological collections, visited Europe during the summer, the expense being defrayed by the Trustees. The object of Dr. Boas's trip was to examine the collections in the various museums and to make arrangements for an exchange of specimens with the ethnological Museums of Berlin and Dresden. These exchanges have proved of value to our Museum in filling a number of gaps, and the result shows that our duplicate American material can be largely used in making judicious exchanges with foreign museums.

Through the liberality of Mr. Jacob H. Schiff, Dr. Boas purchased a collection illustrating the manufacture and use of iron by the natives of Africa, and also a collection illustrative of the use of the cocoa palm by the natives of Melanesia. These collections will be utilized in the preparation of ethnic groups illustrating the use of the various natural products of different peoples.

A large quantity of archæological material has been received through the exploration carried on by the brothers B. T. B. Hyde and F. E. Hyde, Jr., among the ruins of the prehistoric Pueblo Bonito, in New Mexico, which was supplemented by their purchase of a collection of great scientific importance from the cliff houses and caves of the Grand Gulch region of southern Utah. The work conducted under the auspices of the Messrs. Hyde is more fully dwelt upon under the report of expeditions.

Through the efforts of Mr. Francis C. Nicholas, general manager of the South American Exploration Company, a large number of important archæological objects have been given by his associates in this corporation, to which due reference is made in the detailed list of donations to the department.

An extensive collection of Ainu objects from the Island of Yezo, Japan, was secured by Mr. Arthur Curtiss James, while in

Yezo, during the cruise of the 'Coronet,' and was presented by him to the Museum. The collection consists of garments, ornaments, utensils, weapons, and other objects illustrating the customs of these people.

A large and beautiful collection of Apache baskets and water bottles is the gift of Prof. James Douglas.

Mr. B. Talbot B. Hyde has given an interesting series of objects illustrating the making of a Navajo blanket, consisting of sheep pelts, wool, native dyes, loom and weaving implements, a loom with blanket partly woven, and a full series of photographs showing the Indian at work in the different stages of its manufacture.

Late in the year a collection of objects from the islands of the Western Pacific Ocean was purchased by the Trustees from Dr. Otto Finsch of Leiden. In this collection is material illustrating the physical anthropology of the tribes of Melanesia and Micronesia. It also contains a systematic collection of objects illustrating the manufactures, arts, and customs of the people of these great groups of islands. There is a detailed catalogue of the collection and many drawings by Dr. Finsch with an account of the culture of the tribes he met with during the several years he was engaged in his researches.

The mineral collection has been enriched by a number of large and very important specimens presented by Miss M. W. Bruce. Many handsome specimens have also been added by purchase.

A collection of fresh-water and land shells, containing over 1,000 species and nearly 18,000 specimens, was received under the terms of the will of the late Prof. Edward D. Cope.

The Department of Vertebrate Zoölogy has received 1,246 mammals, 545 birds, 1,000 eggs, 25 reptiles, and 190 fishes, the latter received from the Department of Parks, through Dr. Tarleton H. Bean.

Important accessions have been received on account of the James M. Constable Expedition to the Northwest Territory.

We are indebted to Mr. G. O. Shields of this city for a family group, comprising the male, female, and young of the Rocky Mountain goat.

Valuable material has been received for bird groups, including a series of sea birds from Bird Rocks, in the Gulf of St. Law-

rence ; for a Brown Pelican group, from Florida, and for several groups of land birds, to fill gaps in our series of New York birds. Specimens have also been acquired for the local mammal groups, which are well under way.

The Department of Parks has contributed 48 specimens of mammals, and 44 of birds.

We are indebted to the generosity and public spirit of the Very Reverend Doctor Eugene A. Hoffman for the gift of a collection of butterflies from Mexico, Central and South America, numbering 2,250 specimens.

Fourteen enlarged transparencies of selected types of trees, photographed from nature, have been added to the "Jesup Collection of North American Woods." These pictures are displayed in the windows of the Wood Hall, and are provided with transparent labels. Eighteen specimens of trees new to the collection have also been added.

The Library has received a very notable accession in the Marcou collection of works on geology, presented to the Trustees by his heirs, Mr. John Belknap Marcou and Dr. Philippe Marcou. This library was formed by the late Prof. Jules Marcou, an eminent authority in this domain of science, whose reputation is world-wide. This gift comprises about 3,000 volumes and a large collection of maps. It had the distinction of being (with one exception) the largest private library of its kind, and, it is claimed, places the Museum in possession of the most complete collection of literature on geology and palæontology in America. The Trustees are to be congratulated upon the generosity of the donors in selecting this Museum as their beneficiary. The scientists and students of New York will appreciate the opportunity for reference they will enjoy from the location of the library in this city.

During the year, the Duke of Loubat presented to the library 76 volumes and a number of pamphlets on Mexican Archæology, besides 10 large albums of photographic views pertaining to Ceylon and Java, and the ruins of Palenque, Mexico.

The Department of Vertebrate Palæontology has received from its exploring parties a very important collection of skeletons and parts of skeletons of fossil reptiles and mammals, as mentioned in the detailed list of accessions.

EXPEDITIONS.—The third year of the explorations carried on under the auspices of the Messrs. B. T. B. Hyde and Frederick E. Hyde, Jr., was a very successful one. The investigation of the ruins of the prehistoric Pueblo Bonito in New Mexico was made under the personal direction of Mr. George H. Pepper, and a large amount of interesting material was secured. Photographic views were made illustrative of the progress of the exploration of the ruins, and showing the objects in place as they were disclosed.

In furtherance of their intention of providing for the Museum a complete collection of the material of the pueblo and cliff-house regions of the Southwest, the Messrs. Hyde purchased a collection of great scientific interest, collected by Mr. Richard Wetherell from the cliff houses and caves of the Grand Gulch region of southern Utah. This collection comprises mummies and funeral objects of a people who, it is claimed, are distinct from the cliff dwellers, and who also preceded the cliff-house people of this region. This work is done under the direction of the Department of Anthropology, and is conducted solely at the expense of the Messrs. Hyde.

The explorations near Trenton, N. J., have been prosecuted without intermission. Dr. Frederick E. Hyde very generously subscribed the sum required for this purpose, and he will contribute funds for the continuance of the work during 1899.

The explorations in Bolivia, under Dr. A. F. Bandelier, were successfully continued during the past year. The explorer transferred the scene of his operations from Peru to the eastern portion of Bolivia, sending in January last a considerable number of specimens; and notice has also been received that another large shipment of objects is on the way. His latest work has been among ruins and burial-places unlike those explored by him in Peru, and will add to the Museum new and interesting material.

In my last report reference was made to the investigations being made by Mr. Marshall H. Saville, under the terms of arrangement between this Institution and the Government of Mexico. Mr. Saville continued his researches until the climatic changes compelled a return to his duties at the Museum. Three tombs were examined and their structure noted. On his return from Palenque, Mr. Saville made an ethnological collection from

the several tribes of Indians met by him, providing material unrepresented in this division of the Museum. He next visited ruins at Xoxo and Monte Alban, State of Oaxaca, where with a force of thirty natives he excavated several large mounds, remaining here forty-three days. His attention was next turned to the well-known ruins at Mitla, where he secured a further number of objects of much interest. The explorations thus far made under the authority of the Mexican Government show the importance of further work at the two localities in Oaxaca. If another expedition can be sent the coming autumn to work uninterruptedly at these places during an entire working season, there is little doubt that a very considerable addition to our Mexican collections could be secured and many important archæological problems solved.

In order to obtain further information relating to certain Mexican tribes, particularly in relation to their religious ceremonials, among which he had made extended researches during the previous year, Dr. Carl Lumholtz made a four months' trip to Mexico, bringing back an unique collection of exceeding interest. Dr. Aleš Hrdlička was associated with him for the purpose of making a series of anthropometrical records and observations on the physical character of several of the Indian tribes, and to collect as many human skeletons as possible. Dr. Hrdlička also secured a number of life masks of these Indians, and the burial caves which he investigated yielded many human skulls and skeletons. The material thus acquired is essential for comparative study of the past and present tribes of eastern Mexico.

Prof. F. W. Putnam, curator of the Department of Anthropology, reports that "The Jesup North Pacific Expedition has had seven parties in the field. During 1897 the field work of the Expedition was confined to the coast of British Columbia. In 1898 the work was taken up on a more extended scale. Parties were in the field on the coast of the State of Washington, in the southern interior of British Columbia, and on the Amoor River in Siberia. The parties in charge of the work on the American Continent returned at the beginning of winter; the work in Asia is still being carried on. The collections made by the various field parties of the Expedition are now in large part exhibited in the Museum. These exhibits show, in a systematic manner,

the result of archæological work in the interior of British Columbia and on the coast. The ethnological collections are very comprehensive in regard to the tribes of Thompson River, of the northern part of Vancouver Island, and of the central parts of the coast of British Columbia. Material from the parties working in Siberia, in charge of Dr. Laufer, cannot, however, be expected for several months."

The investigations made thus far have brought together a mass of data, the value of which will be made known as the reports and special memoirs are prepared and published.

TRANSPORTATION.—I desire to again record our indebtedness to the friends from whom the Museum has received aid in the transportation of men and material during the season of field work.

The New York and Cuba Mail Steamship Co.; the Wells, Fargo Express Co.; the Southern Railway, and the New York Central & Hudson River Railroad Company, and allied lines, have extended important assistance in the transportation of our material collected in Mexico and the West.

Our thanks are also due to Mr. J. Pierpont Morgan, Mr. C. P. Huntington, Sir Wm. C. VanHorne, Messrs. George J. Gould, J. Stuart Mackie, and E. T. Jeffrey for their cordial consideration of the wants of the Museum.

DEPARTMENT OF ANTHROPOLOGY.—At no period in the history of this department has so much been done for its development or so many additions been made to its collections as during the past year.

The west wing has been completed, adding several new halls for exhibition purposes, and increased facilities for laboratory work have been supplied by new workrooms on the upper floor. The lower hall in this wing has been provided with cases, which have been filled with ethnological objects, and is now ready to be opened to the public. The gallery above is cased, in which the collections from South America are now being arranged. The large hall on the third floor, which will be devoted entirely to the archæological collections from Mexico and Central America, is in an advanced state of arrangement; this hall and the gallery will be ready to open to the public within the year to come.

The material in the North Hall has been readjusted with the



ROCK-CARVING ON VANCOUVER ISLAND. JESUP NORTH PACIFIC EXPEDITION.

intention that the hall is ultimately to contain only the ethnology of the North Pacific Coast of America. When the transfer of several small collections is finished, the cases on the east side of the hall will contain only the Emmons and Bishop collections from British Columbia, while in the cases on the west side will be exhibited the collections made by the parties of the Jesup North Pacific Expedition.

The principal collections received during the year, which have been catalogued and prepared, are the collections from Japan; collections from the Jesup North Pacific Expedition, 1898; collection illustrating the African iron industry; collections made in Mexico; the exchange collections obtained from the ethnological Museums of Berlin and Dresden; and the large collections of casts of sculptures from Mexico and Central America. The entries made in the department catalogue during the year number 21,120.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.—After planning for the field work of the season in Kansas, Nebraska, and Wyoming, Professor Osborn, the curator of this department, went abroad and visited the Museums of Amsterdam, Brussels, Berlin, St. Petersburg, Moscow, Leipsic, Halle, Vienna, Munich, Stuttgart, Darmstadt, Basle, Lyons, Paris, and London. Methods of exhibition were studied, and arrangements were made for exchanges with our Museum, several of which have already been effected.

The second expedition for Dinosaurs was sent out to Wyoming in charge of Dr. J. L. Wortman, with a party of four. Deposits of Dinosaur bones very favorably situated were found. The party remained in camp at this place from its opening in June until the close of the field season on October 1, leaving one of its members in charge in order to prevent a 'jumping' of the Museum claim upon this remarkable locality. In all some 60,000 pounds of fossils were secured. This splendid collection reached the Museum entirely uninjured, and one third of it has already been worked out, under the direction of the preparator, Mr. Hermann.

The fore and hind limbs of these monster reptiles will furnish subjects of great interest for the public. The exhibition hall has been enriched this year by the skeletons of two great Dinosaurs.

A beautiful series of photographs was taken representing the successive stages of development of this quarry, the complete excavation of which will probably occupy several years.

A second party, under the direction of Dr. W. D. Matthew, was operating in the fossil beds of northwestern Kansas and southwestern Nebraska. The Bad Lands of northeastern Colorado were also found to be a rich collecting ground. Skulls and parts of skeletons were secured, filling many important gaps in our collection. Portions of skeletons and skulls of fossil camels were found, among which is included a gigantic one of the size and proportions of the giraffe. The party also acquired a large amount of similar material to which detailed reference cannot be made within the limits of my report.

Through the kindness of Mr. J. Pierpont Morgan, Mr. Charles Knight, under the supervision of the curator, has continued his restorations of extinct animals and has added five beautiful water-colors to the series, besides completing five models. These restorations of the Extinct Animals of North America have been furnished to the Museums of London, Munich, Brussels, Oxford, Stuttgart, and Cape Town.

DEPARTMENT OF GEOLOGY AND INVERTEBRATE ZOOLOGY.—The most important work carried on in this department has been the continuation of the cataloguing of the types of the Hall Collection. This has now reached a point where renewed appropriations are needed for the expenses of publication. It is unnecessary to dwell upon the importance of this catalogue in view of its being a permanent record of the type specimens of the Hall Collection. Its publication will increase the value of the collection, besides making it more attractive to students of palæontology. In this connection I have observed the need of setting apart a room for the convenience of students who may desire to consult these collections.

Special attention is directed to the case holding the malachites and similar material presented by the Copper Queen Consolidated Mining Company, which is now exhibited in the north windows of the mineral hall.

The collection of corals has been notably increased, and special attention is directed to two specimens of great beauty collected by Prof. Whitfield. These objects are displayed,

respectively, at the north and south ends of the palæontological hall.

DEPARTMENT OF VERTEBRATE ZOOLOGY.—I regret to note that the increase in the number of specimens in this department is not equal to that of former years.

Owing to the changes made in the transept of the west wing by the construction of stairways, the mammals formerly displayed there have been removed, temporarily, and cannot be permanently installed until the addition to the east wing, now under construction, is completed. New space has been provided, however, for the installation of the local and other special collections of birds and mammals, which will be especially instructive to students of our local fauna and useful to the teachers and pupils of our public schools. The cases are now ready and the installation will soon be completed.

During the coming year a number of large mammals will be mounted for the North American collection, and others for the general collection of mammals, from the material now on the way from South America and Central America. Several hundred birds will also be mounted for the local and other special collections.

During the year Mr. Frederick M. Holbrook has kindly identified and catalogued the turtles; the fishes received from the New York Aquarium have been identified and catalogued by Dr. Tarleton H. Bean.

DEPARTMENT OF ENTOMOLOGY.—The Hoffman Collection of North American Butterflies has been arranged, labeled, and placed on exhibition. About 1200 specimens of the Hoffman Collection of butterflies from Mexico, Central and South America have been mounted on tablets, and two cases have been filled with the material ready for exhibition.

Two cases containing silk-producing moths, with their cocoons, have been added to the exhibition collection, together with a very interesting exhibit showing the mimicry of insects.

Some field work has been carried on during the vacation season, through which a large amount of material has been added to the local collection representing the varieties of insects found within a radius of fifty miles from New York City. This collection will be made as complete as possible by the addition of the material illus-

trating the life-history and the food plants of the various species, and will serve to stimulate the interest of visitors, and also to invest the collection with a greater value for teachers and students.

The collection of beetles has been revised and the large and unique specimens selected for exhibition. The specimens which are too minute to be easily examined will be accompanied by outline drawings, showing the structural characters of the species.

LIBRARY.—The librarian reports accessions during the year equal to 5839 volumes. The library now contains 41,691 volumes, including the recently acquired Marcou Library. The library is in great need of funds for binding periodicals, and for the purchase of a large number of standard works of reference in various departments of science.

DEPARTMENT OF PUBLIC INSTRUCTION.—I note with great pleasure the increasing interest manifested by our citizens in the work of the Department of Public Instruction. Prof. Albert S. Bickmore, in charge of this branch of the Museum's work, reports that the twenty lectures to the Teachers of the Public Schools, delivered by him under the auspices of the State Superintendent of Public Instruction, had an attendance of more than 17,000 persons. Over 8000 persons attended his Spring and Autumn Courses to Members of the Museum, and the free lectures to the public, given by him on holidays, were attended by nearly 4000 persons.

The popularity of the lectures delivered at the Museum to the Teachers of the Public Schools is evinced in the request from the Board of Education, through Dr. Henry M. Leipziger, Superintendent of Lectures, for duplicates of the slides and text of these lectures, for incorporation in the free courses to the public. A series of these lectures were given on Tuesday evenings at the Museum, the attendance being so great that on each occasion several hundred persons were unable to gain admission.

**LECTURES TO THE TEACHERS OF THE PUBLIC SCHOOLS BY
PROF. ALBERT S. BICKMORE.**

Spring Course.

Lecture	—West Indies—The Lesser Antilles.
"	—Colorado River and its Cañons.
"	—Southern California.
"	—Washington and Oregon.
"	—British Columbia.

Autumn Course.

- Lecture —North Atlantic Ocean—The Bermudas.
 " —Cuba—Havana and Santiago.
 " —Jamaica and Porto Rico.
 " —Northern Russia—St Petersburg.
 " —Central Russia—Moscow.

Holiday Course.

- New Year's Day—Italy—Rome.
 Washington's Birthday—Italy—Florence and Venice.
 Thanksgiving Day—North Atlantic Ocean—The Bermudas.
 Christmas—Cuba—Havana and Santiago.

PROF. ALBERT S. BICKMORE'S COURSE TO MEMBERS OF THE MUSEUM.

Spring Course, 1898.

- Feb. 10.—Northern Italy—Florence and Venice.
 " 17.—West Indies.
 " 24.—Colorado River and its Cañons.
 Mar. 3.—Southern California.
 " 10.—Washington and Oregon.

Autumn Course, 1898.

- Nov. 10.—North Atlantic Ocean—The Bermudas.
 " 17.—Cuba—Havana and Santiago.
 Dec. 1.—Jamaica and Porto Rico.
 " 8.—Russia—St. Petersburg and Moscow.

COLUMBIA UNIVERSITY COURSE, 1898.

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|------|---|----------------------------|
| Jan. | 8.—Mining, Ancient and Modern..... | Mr. John A. Church. |
| " | 15.—Mining of Low Grade Ores..... | Prof. Henry S. Munroe. |
| " | 22.—Mining at Lake Superior..... | Mr. J. Parke Channing. |
| " | 29.—Metal Mining..... | Prof. George W. Maynard. |
| Feb. | 5.—Mechanical Sources of Energy..... | Prof. Frederick R. Hutton. |
| " | 12.—Generation of Electrical Energy..... | Prof. Francis B. Crocker. |
| " | 19.—Transmission of Electrical Energy..... | Dr. A. E. Kennelly. |
| " | 26.—Utilization of Electrical Energy..... | Prof. William A. Anthony. |
| Mar. | 5.—Some Features of Modern Bridge Construction..... | Wm. H. Burr. |
| " | 12.—Recent Campaigns in the Soudan..... | Henry G. Prout. |
| " | 19.—Masonry..... | George S. Morrison. |
| " | 26.—The Development of the Steamship..... | Horace See. |
| Dec. | 3.—Wave Motion..... | } Prof. William Hallock. |
| " | 10.—Visible Radiant Energy..... | |
| " | 17.—Radiant Heat..... | |
| " | 31.—Electrical Radiation..... | |

NEW YORK BOTANICAL GARDEN LECTURES, 1898.

- Mar. 24.—Hardy Flowering Shrubs and Perennials..Mr. Cornelius Van Brunt.
 " 31.—A Botanist's Rambles in the Mountains of Oregon.
 Prof. Francis E. Lloyd.

Report of the President.

LINNÆAN SOCIETY LECTURES, 1898.

- Jan. 6.—Cats, and the Lands they Inhabit.....Prof. Daniel Giraud Elliot.
 Feb. 3.—From Vera Cruz to Mexico.....Mr. Frank M. Chapman.
 Mar. 17.—The Mammals of North America.....Mr. Ernest Seton Thompson.
 April 7.—Protective and Directive Coloration of Animals.
 Dr. C. Hart Merriam.

BOARD OF EDUCATION LECTURES, 1898.

- Jan. 11.—From Lexington to YorktownMr. W. W. Ellsworth.
 " 18.—North American Indians.....Mr. F. S. Dellenbaugh.
 " 25.—Ireland.....Mr. Thomas McVeagh, Jr.
 Feb. 1.—The Homes, Habits, and History of the French People,
 Prof. H. E. Northrop.
 " 8.—The Life of the Swiss Peasantry.....Mr. W. D. McCrackan.
 " 15.—Holland's War with the Sea.....Prof. J. H. Gore.
 " 22.—Wonders of Modern Science.....Mr. W. J. Clarke.
 Mar. 1.—Norway: the Land of the Midnight Sun...Mr. Gilbert Ray Hawes.
 " 8.—Earthquakes: Their Results and what is Known of their Causes.
 Mr. Cyrus C. Adams.
 " 15.—To the Summit of the Matterhorn.....Miss Annie S. Peck.
 " 22.—Volcanoes, Ancient and Modern.....Dr. E. O. Hovey.
 " 29.—The Austrian Alps and the Tyrolese.....Prof. H. E. Northrop.
 April 5.—Light and Color.....
 " 12.—The Electric Current; Its Chemical
 and Heating Effects.....
 " 19.—The Electric Current; Its Magnetic
 Effects.....
 " 26.—The Electric Current; Its Inductive
 Effects.....
 } Mr. E. R. Van Nardroff.
 Oct. 11.—China, the Middle Kingdom
 " 18.—Korea, the Pigmy State.....
 " 25.—Japan, the Island Empire.....
 } Mr. W. E. Griffis.
 Nov. 1.—The United States and the Pacific Ocean.....
 " 8.—Wonders and Beauties of Ceylon.....Mr. G. N. Thomsen.
 " 15.—Arabia.....Dr. Stephen Hasbrouck.
 " 22.—The Bedouins of Arabia and Palestine.
 Mr. Peter von Finkelstein Mamreov.
 " 29.—ConstantinopleMr. Hovhannes Samuelian.
 Dec. 6.—Russia: Moscow to Nijni Novgorod by Way of the Ural
 MountainsDr. E. O. Hovey.
 " 13.—Russia: St. Petersburg to Baku; The Caucasus. Dr. E. O. Hovey.

RECEPTIONS AND EXHIBITIONS.

New York Academy of Sciences, April 13 and 14.
 Annual Meeting of the Audubon Society, Feb. 9.
 New York State Science Teachers' Association, Dec. 30.

PUBLICATIONS.—The publications of the Museum issued during 1898 greatly exceed those of any preceding year, and include the following: Volume X of the Bulletin, consisting of pp. i-x and 1-

448, with 24 plates and 75 text figures; Part 1 of Volume XI of the Bulletin, pp. 1-72; Part 3 of Volume I of the Memoirs, pp. 75-164, with pll. xiiia-xx; and Parts 1 and 2 of Volume II of the Memoirs, pp. 1-128, with pll. i-xii. Volume II of the Memoirs will relate exclusively to the results of the Jesup North Pacific Expedition. A list of the articles published in 1898, arranged by departments, is as follows:

DEPARTMENT OF INVERTEBRATE PALÆONTOLOGY.

Notice of a Remarkable Specimen of the West Indian Coral *Madrepora palmata*. By R. P. Whitfield. (Bull. X, pp. 463, 464, pl. xxiv.)

Catalogue of Types and Figured Specimens in the Palæontological Collection of the Geological Department, American Museum of Natural History. By R. P. Whitfield, assisted by E. O. Hovey. (Bull. XI, pp. 1-72.)

DEPARTMENT OF VERTEBRATE ZOOLOGY.

Notes on Birds observed at Jalapa and Las Vigas, Vera Cruz, Mexico. By Frank M. Chapman. (Bull. X, pp. 15-43, pl. iii.)

Notes on Fishes received at the New York Aquarium, with a Description of a New Species of Snapper from Bermuda. By Tarleton H. Bean. (Bull. X, pp. 45-50.)

Descriptions of New Mammals from Western Mexico and Lower California. By J. Allen. (Bull. X, pp. 143-158.)

Notes on Mexican Fishes obtained by Dr. Carl Lumboltz. By Tarleton H. Bean. (Bull. X, pp. 165-168.)

Revision of the Chickarees, or North American Red Squirrels (Subgenus *Tamiasciurus*). By J. A. Allen. (Bull. X, pp. 249-298.)

Descriptions of Three New Forms of Pocket Mice from the Mexican Border of the United States. By Edgar A. Mearns. (Bull. X, pp. 299-302.)

A Study of the Vertebrate Fauna of the Hudson Highlands, with observations on the Mollusca, Crustacea, Lepidoptera, and Flora of the Region. By Edgar A. Mearns. (Bull. X, pp. 303-352.)

Nomenclatorial Notes on Certain North American Mammals. By J. A. Allen. (Bull. X, pp. 449-461.)

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

A Complete Skeleton of *Teleoceras fossiger*. Notes upon the Growth and Sexual Characters of this Species. By Henry Fairfield Osborn. (Bull. X, pp. 51-61, pll. iv and iva.)

A Complete Skeleton of *Coryphodon radians*. Notes upon the Locomotion of this Animal. By Henry Fairfield Osborn. (Bull. X, pp. 81-91, pl. x, with 2 text figures.)

The Extinct Camelidæ of North America and Some Associated Forms. By J. L. Wortman, M.D. (Bull. X, pp. 93-142, pl. xi, with 23 text figures.)

Remounted Skeleton of *Phenacodus primævus*. Comparison with *Euprotogonia*. By Henry Fairfield Osborn. (Bull. X, pp. 159-164, pl. xii, with 4 text figures.)

Evolution of the Amplypoda. Part I. Taligrada and Pantodonta. By Henry Fairfield Osborn. (Bull. X, pp. 169-218, with 29 text figures.)

Additional Characters of the Great Herbivorous Dinosaur *Camarasaurus*. By Henry Fairfield Osborn. (Bull. X, pp. 219-233, with 13 text figures.)

The Extinct Rhinoceroses. By Henry Fairfield Osborn. (Mem. I, pp. 75-164, pll. xiiia-xx, with 49 text figures.)

DEPARTMENT OF ANTHROPOLOGY.

The Huichol Indians of Mexico. By Carl Lumholtz. (Bull. X, pp. 1-14, pll. i and ii, with 1 text figure.)

Marked Human Bones from a Prehistoric Tarasco Indian Burial Place in the State of Michoacan, Mexico. By Carl Lumholtz and Aleš Hrdlička. (Bull. X, pp. 61-79, pll. v-ix.)

Facial Paintings of the Indians of Northern British Columbia. By Franz Boas. (Mem. II, pp. 1-24, pll. i-vi.)

The Mythology of the Bella Coola Indians. By Franz Boas. (Mem. II, pp. 25-127, pll. vii-xii.)

DEPARTMENT OF ENTOMOLOGY.

Revision of the Species *Euchloë* inhabiting America, north of Mexico. By William Beutenmüller. (Bull. X, pp. 235-248, pll. xiii and xiv.)

Descriptive Catalogue of the Bombycine Moths found within fifty miles of New York City. By William Beutenmüller. (Bull. X, pp. 353-448, pll. xv-xxiii.)

Reference was made in my preceding report to the number of papers, the publication of which was deferred until 1898 for lack of money. Most of these have now been published, for which purpose an additional appropriation was made this year. The list of articles proposed for publication in 1899 will require more than double the amount expended in 1898, and I regret to be compelled to disallow a large proportion of the amount, owing to lack of funds.

EXCHANGE OF DUPLICATE MATERIAL.—The exchange of duplicate material has been stimulated through correspondence with foreign museums. Many of the smaller institutions abroad have been brought into relation with this Museum, and the system of exchanges will be further extended during the coming year.

The exchanges made by the Department of Vertebrate Zoölogy have been mainly with museums in this country; those made by the Departments of Anthropology and Vertebrate Palæontology have been with prominent foreign museums. In each case this Institution has acquired very desirable material.

PHOTOGRAPHY.—The use of photographs in illustrating the collections has increased. In some instances, they show the natural surroundings of the place whence the specimens were

DEPARTMENT OF ANTHROPOLOGY.



KOKIWO WOMAN, SHOWING ARTIFICIAL DEFORMATION OF HEAD, JESSE NORTH PACIFIC EXPEDITION.

excavated, and in other cases the objects in position before their removal.

The field parties of the Jesup North Pacific Expedition ; the expeditions to Mexico under Mr. M. H. Saville and Dr. Carl Lumholtz ; and of the Department of Vertebrate Palæontology in the West have all made liberal use of the camera. Some of the negatives are utilized in the preparation of enlarged transparencies, for display in the windows of the exhibition halls.

USE OF COLLECTIONS.—A very noticeable increase is observed in the number of teachers who visit the halls, accompanied by their classes, and the more general use of the collections by students and scientists. The collections of woods and building-stones are utilized by builders, mechanics, and architects for comparison and study to a greater extent than before.

INCOME.—The increase of our Annual Membership is not commensurate with the growth of the city, comprising as it does only 716 members for the current year. It is from this source that the Museum receives a portion of its revenue, and as the income is devoted to the purchase of specimens to enrich the collections, it is hoped that more of our citizens will become members, either by the annual payment of \$10, or by a subscription of \$100 as a Life Member. If each Annual Subscriber would take an interest in securing one additional member, the results would be very gratifying.

As will be seen in the Treasurer's report, the income for the year has been insufficient to meet the current expenses of the Museum.

There is a great need, not only for an increase in the annual appropriation by the city for the cost of maintenance, but the invested fund should also be augmented to provide the means for obtaining new collections and specimens. The Endowment Fund amounts to \$362,000, giving a yearly income of \$18,100.

A large portion of this income is pledged for payment on important collections, which in its early days the Museum had to secure. We need largely increased receipts from this source, and I hope, now that the Museum has been firmly established as one of the great attractions of our city, and one of its most useful institutions for the welfare and education of its people, that this appeal for aid will not pass unheeded.

Our hearty thanks are due to the officials of our city, who have coöperated heartily with the Museum in all that relates to the work of the Trustees.

It is also a pleasure to record, on behalf of my associates and myself, our appreciation of the efficient service rendered during the year by the staff of the Museum.

MORRIS K. JESUP,
President.

MAINTENANCE.

DISBURSEMENTS.

Expressage.....	\$ 920 38
Labor.....	38,898 79
Printing.....	51 90
General Expenses.....	2,050 22
Postage.....	297 00
Repairs.....	3,326 97
Coal.....	4,701 81
Labels.....	2,070 68
Stationery.....	706 73
Interest on "Dr." balances.....	125 81
Annual Report.....	575 00
Interest on Special Loan.....	482 40
Supplies.....	4,128 58
Salary.....	46,137 03
Fixtures.....	1,881 18
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	\$106,354 48
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CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, Dec. 31, 1898.

THE AMERICAN MUSEUM OF NATURAL HISTORY

ENDOWMENT.

RECEIPTS.

Cash on hand, Jan. 1, 1898.....	\$	3,192	06
Freight Rebate.....		102	40
Guides.....		18	00
Life Members:			
Joseph Loth.....	\$	100	00
Bernard G. Gunther.....		100	00
Banyer Clarkson.....		100	00
Henry H. Cook.....		100	00
John G. Moore.....		100	00
James B. M. Grosvenor.....		100	00
Frederick Billings.....		100	00
Mrs. Wm. H. Macy, Jr.....		100	00
Samuel R. Betts.....		100	00
Francis Lynde Stetson.....		100	00
Morris K. Jesup—Mexican Antiquities.....		200	00
“ “ —Jesup Collection N. A. Forestry.....		3,306	30
Admission Fees.....		1,036	00
Annual Members.....		6,950	00
Patrons:			
H. O. Havemeyer.....	\$	1,000	00
A. D. Juilliard.....		1,000	00
Henry F. Osborn—Department of Vertebrate Palæontology.....		2,126	89
Collecting Permits.....		30	00
State Superintendent of Public Instruction.....		12,000	00
Special Loan:			
James M. Constable.....	\$	9,000	00
Morris K. Jesup.....		9,000	00
Special Loan, Acc't of Overdrafts.....		15,000	00
B. T. B. & F. E. Hyde, Jr.—Hyde Expedition.....		1,050	00
Mexican Expedition refund.....		348	73
Interest on Invested Funds.....		18,100	00
Morris K. Jesup—Jesup North Pacific Expedition.....		11,241	09
Frederick E. Hyde—Department of Anthropology.....		900	00
R. P. Lounsbury—Department of Vertebrate Palæontology.....		50	00
Jacob H. Schiff—Department of Anthropology.....		500	00
Matilda W. Bruce—Minerals.....		250	00
James M. Constable—Constable Expedition Northwest Territory..		1,200	00
		<u>\$98,601</u>	<u>47</u>

Examined { ANSON W. HARD, } *Auditing*
and approved, { GEORGE G. HAVEN, } *Committee.*

Correct.—JOSEPH W. EDWARDS, *Auditor, March 16, 1899.*

ENDOWMENT.

DISBURSEMENTS.

Minerals.....	\$ 320 00
Ornithology.....	108 21
Labels.....	150 40
Bulletins.....	6,094 69
Terry Collection.....	18,000 00
Emmons' Second Alaskan Collection.....	5,550 20
Mammals.....	464 07
Library.....	771 48
Mammal Groups.....	321 70
Appleton Sturgis—Pacific Islands Collection.....	3,749 38
Skeletons.....	377 71
Bird Groups.....	122 74
Geology.....	58 24
Postage.....	125 06
Traveling Expenses.....	56 96
Conchology.....	25 00
Peruvian Expedition.....	4,032 50
Annual Report.....	585 39
Stationery.....	209 70
Edwards' Entomological Collection.....	600 00
Entomology.....	204 91
Spang Collection.....	1,150 00
Haines Collection.....	1,000 00
General Expenses.....	521 55
Economic Collection.....	3,194 30
Invertebrate Zoölogy.....	144 08
Mexican Expedition.....	3,121 58
Printing.....	194 35
Anthropology.....	7,727 77
Morris K. Jesup—Jesup North Pacific Expedition ¹	11,241 09
Ethnic Groups.....	1,184 67
Lumholtz-Hrdlicka Expedition.....	4,201 33
Vertebrate Palæontology.....	4,696 55
Department of Public Instruction.....	9,622 30
James M. Constable—Constable Expedition Northwest Territory..	1,200 00
Cash on hand, December 31, 1898.....	7,473 56
	<u>\$98,601 47</u>

CHARLES LANIER, *Treasurer*.

[E. & O. E.]

NEW YORK, Dec. 31, 1898.

¹ Contributions from Morris K. Jesup for the North Pacific Expedition :

1897.....	\$ 4,997 02
1898.....	11,241 09
	<u>\$16,239 01</u>



CAST OF A SCULPTURED STONE, RUINS OF QUIRIGUA, GUATEMALA. GIFT OF THE DUKE OF LOURAIN.

LIST OF ACCESSIONS, 1898.

LIBRARY.

DONATIONS.

	Volumes	Parts and Numbers	Pamphlets
Albert I ^{er} , Prince Souverain de Monaco.....		1	
Prof. J. A. Allen, New York City.....			132
James Angus, New York City.....	4	15	
S. P. Avery, New York City.....	3	9	
E. J. Bacon, London, England			1
O. Bangs, Boston, Mass.....			17
Miss E. Benjamin, New York City.....		62	
Chas. E. Bessey, Salem, Mass.....			1
William Beutenmüller, New York City.....			27
H. Bolton, Manchester, England.....	1		
George H. Brown, New York City	25		
Lawrence Bruner, Lincoln, Nebraska.....	1		
F. J. R. Carulla, Derby, England.....			5
T. C. Chamberlin, Indiana.....			1
Rev. W. Colenso, Napier, N. Z.....	1		
O. Davie & Company, Columbus, Ohio.....	1		
S. D. Dill, New York City.....			6
Daniel Draper, New York City.....	1		
C. Eickenmeyer, New York City.....			1
D. G. Elliot, Chicago, Ill.....			1
R. S. Tarr, Ithaca, N. Y.....			1
Albert Federico, Santiago de Chile.....		2	
B. E. Fernow, Washington, D. C.....			1
Hon. R. P. Flower, New York City.....	5		
Dr. Wilhelm Fresenius, Wiesbaden, Germany.....			19
A. S. Gatschet, Washington, D. C.....			2
F. S. Palmer, Berkeley, Cal.....			1
Louis Pelatan, N. P.....			1
George H. Pepper, New York City.....	28		
Mrs. M. Petersen, New York City.....	20		
Hon. Lemuel E. Quigg, New York City.....	16		
John Rowley, New York City.....	1		
W. R. Shaw, Stanford, Cal.....			1
Harlan I. Smith, New York City.....			2

	Volumes	Pamphlets	Pamphlets
Miss Harriet L. Sniffin, New York City.....	14	16	20
Sir William Turner, Edinburgh, Scotland.....			20
J. G. y Villa, Milano, Italy.....	1		
Joseph Wiener, M.D., New York City.....	9		5
J. H. Winser, New York City.....		43	
Miss Lucy S. Woodward, New York City.....		16	
William A. Woodward, New York City.....	1	7	35
Southern University, Greensboro, Alabama.....	1		
Pasadena Academy of Sciences, Cal.....		3	
Central Experiment Farm, Ottawa, Canada.....		4	
Department of Marine and Fisheries, Ottawa, Canada.....	2		
Government Printing Bureau, Ottawa, Canada.....	18	21	3
Ontario Agricultural College and Experiment Farm, Toronto..	2	4	
Department of Agriculture, Toronto.....	18	1	1
Department of Agriculture and Immigration, Winnipeg.....		1	
Colorado State Agricultural College, Fort Collins.....	1	2	
Yale University, New Haven, Conn.....		1	
Florida Agricultural Experiment Station, Jacksonville.....		7	
Hon. Charles Lewis Guy, New York City.....	224	252	
Dr. A. Hrdlička, New York City.....			1
Arthur C. James, N. Y.....			3
Chas. Janet, Beauvais, France.....			4
Morris K. Jesup, New York City.....	31	37	
Dr. F. Kamieniecki, Russia.....			1
Wilbur C. Knight, Laramie, Wyoming.....			1
George F. Kunz, New York City.....			2
Miss Harriet L. Lagowitz, New York City.....	4		
C. G. Lloyd, Cincinnati, Ohio.....			2
Duke of Loubat, New York City.....	69	54	
" " Albums of Photographs.....	12		
" " Photographs.....		61	
"In Memory of Jules Marcou," the gift of his heirs, Dr. Philippe and John B. Marcou.....	3000	5000	5000
Also a large and valuable Collection of Maps.....			1200
H. C. Mercer, Philadelphia, Pa.....	1		3
M. L. Miller, Chicago, Ill.....			1
W. Miller, Grand Rapids, Mich.....			1
C. B. Moore, Philadelphia, Pa.....	1		
Hon. Levi P. Morton, New York City.....	7		
Mandeville Mower, New York City.....			4
Munn & Co., New York City.....	1	25	
M. de Nadaillac, Paris, France.....			1
Felix F. Outres, S. A.....	1		1
Sante Fé Route, Chicago, Ill.....	5		
Illinois Board of World's Fair Commissioners, Springfield.....	1		
" Horticultural Board of Control, Savoy.....	1		
Rose Polytechnic Institute, Terre Haute, Indiana.....			1
Board of State Charities of Indiana, Indianapolis.....	1	36	
Iowa Board of Railroad Commissioners, Des Moines.....	1		2
" State University, Iowa City.....		2	
Kansas Academy of Science, Topeka.....	1		
Kentucky Agricultural Experiment Station, Frankfort.....		9	

	Volumes	Parts and Numbers	Pamphlets
Maryland Agricultural College, College Park.....		2	
“ “ Experiment Station, College Park.....	1	5	
Massachusetts Horticultural Society, Boston.....	1		
Harvard Astrophysical Conference.....		1	
The Newberry Library, Springfield, Mass.....		2	
Wellesley College, Wellesley, Mass.....	2		
Worcester Polytechnic Institute, Mass.....			2
Mexican Expedition. Am. Mus. Nat. Hist.....	50	14	42
Michigan Ornithological Club, Grand Rapids.....		4	
“ Bureau of Labor and Industrial Statistics, Lansing..	1		
“ State Treasurer, Lansing.....	1		
University of Minnesota State Agricultural Experiment Station, Minneapolis.....		3	
Mississippi Agricultural and Mechanical College, Jackson....	1		1
Helena Public Library, Montana.....		2	
Montana Bureau of Agriculture, Labor, and Industry, Helena..		1	
Nevada State University, Reno.....		3	
New Jersey Agricultural College Experiment Station, New Brunswick.....		10	
New Jersey Bureau of Statistics, Labor, and Industries.....	1		
“ “ State Microscopical Society, New Brunswick.....		1	
Vineland Historical and Antiquarian Society, N. J.....		1	
Bureau of Statistics and Labor, State of New York, Albany..	2	10	
The Agricultural Society, New York, Albany.....	1		
Grosvenor Free Public Library, Buffalo.....		8	
New York Agricultural Experiment Station, Geneva.....		129	
Western New York Horticultural Society, Rochester.....	1		
Lake Mohawk Conference on International Arbitration, N. Y..	1		
American Society for Prevention of Cruelty to Animals, New York City.....	1	10	
Harlem Library, New York City.....	1		
Merchants' Association, New York City.....		1	
Monumental Records Association, New York City.....		3	
National Academy of Design, New York City.....			2
New York Entomological Society, New York City.....			1
“ “ Post-Graduate Medical School, New York City....	1	2	
“ “ Scientific Alliance, New York City.....	1		1
Roosevelt Hospital, New York City.....	1		
Scoville and Adams Co., of New York City.....		4	
Teachers College, New York City.....			1
The Auk, New York City.....	1	1	
The Osprey Company, New York City.....		5	
Biltmore Herbarium, N. C.....			1
Cincinnati Museum Association, Ohio.....		1	1
Lloyd Mycological Museum, Cincinnati, Ohio.....	1		
University of Cincinnati, Ohio.....	1		
Hamilton College, Clinton, Ohio.....		2	
Agricultural Experiment Station, Columbus, Ohio.....		11	
Miami University, Oxford, Ohio.....	1		
Fairmount Park Art Association, Philadelphia, Pa.....	1		
Girard College, Philadelphia, Pa.....	1		
Rhode Island State Board of Agriculture, Providence.....		1	

	Volumes	Parts and Numbers	Pamph- lets
University of Tennessee, Nashville.....		1	
Virginia Agricultural and Mechanical College, Blacksburg.....		4	
University of Virginia, Charlottesville.....	1		
Hampton Normal and Agricultural Institute, West Virginia ...		9	
Middlebury College, Vt.....	1		
Mountain Club, Cape Town, Africa		1	
Royal Asiatic Society, Shanghai, China, Asia.....		1	
Deutsche Gesellschaft für Natur- und Völkerkunde Ostasiens, Tokio, Asia	1		
Tōkyō Geographical Society, Tōkyō, Japan, Asia.....		5	
Japan Weekly Gazette.....		9	
Government Geologist, Adelaide, Australia.....	1		
Woods and Forests Department, Adelaide, Australia.....		2	
Queensland Museum, Brisbane, Australia.....		2	
Government Statistician and Registrar-General, Hobart, Aus- tralia	1		
Minister of Mines, Tasmania, Australia.....		4	
Victoria Field Naturalists' Club, Australia.....		1	
New Zealand Institute, Wellington, Australia	1		
R. Società Agraria di Gorizia, Austria-Hungary.....		12	1
Société de Médecine Scientifique et d'Hygiène, Karkow, Austria-Hungary.....	1		
Museum Francisco Carolinum in Linz, Austria-Hungary.....	1		
Académie di Scienze Fisiche e Mathemat, Roveredo, Austria- Hungary.....		3	
Wiener Thierschutz-Verein, Wien (Vienna), Austria-Hungary..		8	
L'Académie Royale de Belgique, Bruxelles, Belgium.....			1
L'École Provinciale d'Ind. et d. Miner. d. Hainaut, Liège, Belgium.....	1		
Monthly Arabic Journal of Science, Literature, and Art, Cairo, Egypt.....	1		
Athenæum, London, England	1		
Birmingham and Midland Institute, England			1
Leeds Philosophical and Literary Society, England.....	1		
L'Intermédiaire des Biologistes, Paris, France		2	
Société des Sciences Médicales de Gannat, Commentry, France.		2	
Société d'Horticulture et Viticulture de la Côte d'Or, Dijon, France.....		2	
Société d'Horticulture de Fontenay Le Comte, France.....		4	
Königliche Friedrich-Wilhelms-Universität, Berlin, Germany..	1		
Zoological Collection zu Berlin, Germany.....			1
Zoologische Sammlung zu Berlin, Germany.....	1	1	1
Niederrheinische Gesellschaft für Natur- und Heilkunde, Bonn, Germany.....		12	
Westpreussische Fischerei-Verein, Danzig, Germany.....		7	
Naturwissenschaftliche Gesellschaft "Isis" in Dresden, Ger- many.....	1		
Hamburgische Wissenschaft Anstalte, Hamburg, Germany....		3	
Verein für Heil- und Naturkunde zu Pozsony, Plauen, Germany..		1	
Cawnpore Experimental Farm, Allahabad, India.....		1	
Agricultural and Horticultural Society of India, Calcutta, India..	1		
Botanical Survey of India, Calcutta.....		3	

	Volumes	Parts and Numbers	Pamphlets
Government of India, Calcutta, India.....	1	97	3
Agricultural Statistics of Ireland, Dublin.....	1		
R. Academia di Scienze, Fisiche, Matematici (di Napoli), Italy.		3	
Direccion General de Estadistica, Mexico.....	4		
Instruccion Pública Mexicana.....		17	
Direktøren for det Civile Veterinærvesen, Kristiania, Norway..	1		
Bernice Pauahi Bishop Museum, Honolulu, Sandwich Islands..		1	
Hawaiian Minister of the Interior, " " " " " " " " " " " "		9	
Edinburgh University, Scotland.....	1		
Sociedad Científica Argentina, Buenos Aires, South America...	1	6	
Instituto Agronomico d. Estado d. São Paulo, Brazil, South America.....			1
Direccion de Estadistica General, Montevideo, Uruguay, South America.....	2	1	
Agricultural Society, Barbadoes, W. I.....		1	
Dodd's Experimental Field Reformatory, Barbadoes, W. I....	1		
Real Academia de Ciencias Médicas, Fisicas, y Nat. d. I. Habana, W. I.....			4

Mrs. WM. MOORE CARSON, New York City.

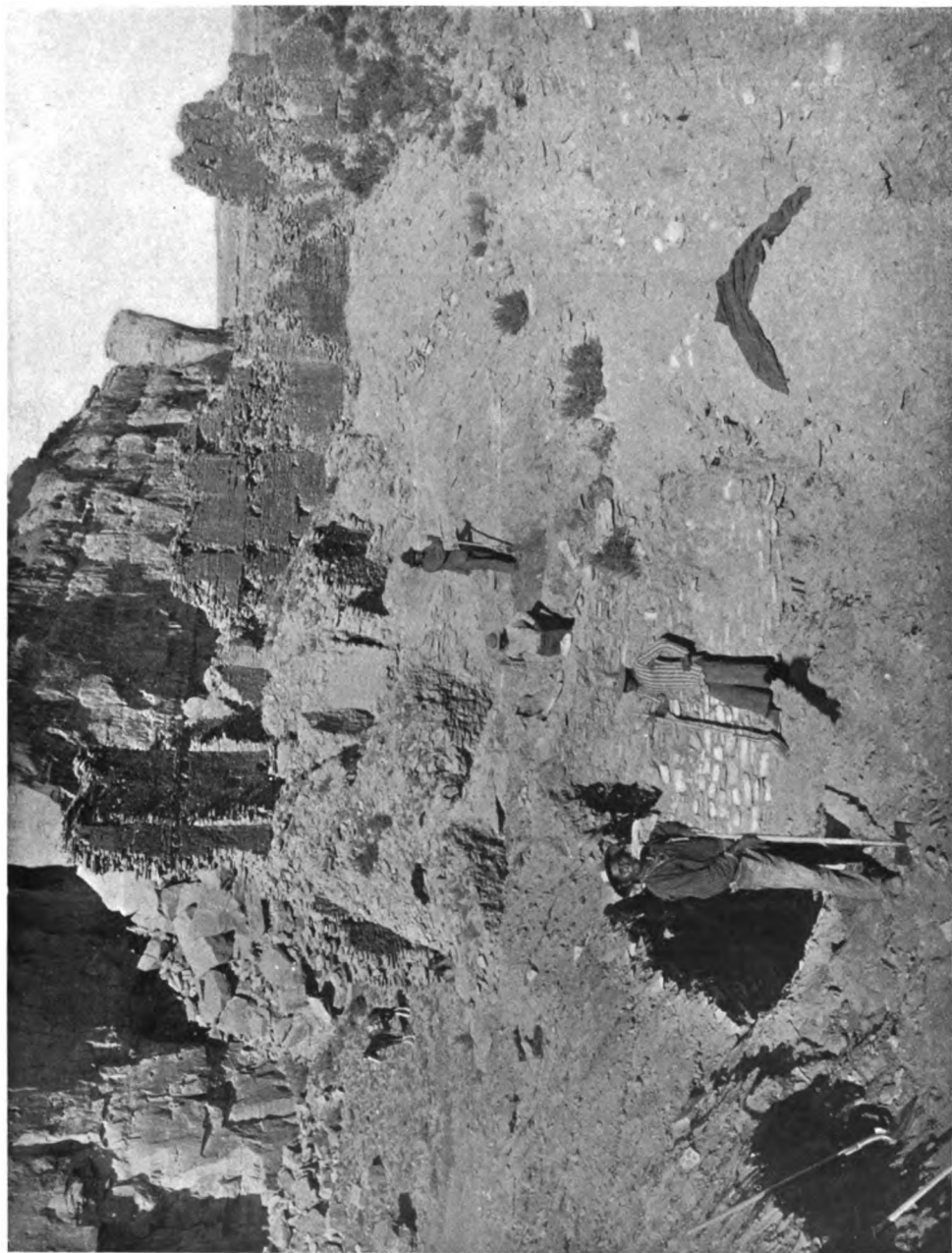
An oil painting by John Woodhouse Audubon,—a deer hunt entitled 'The Last Resort.'

EXCHANGES.

	Volumes	Parts and Numbers	Pamphlets
Africa. Académie d'Hippone-Société de Recherche Scientifique et d'Acclimatation, Bone.....		1	1
Colonial Secretary's Office, Cape Town	1		
South African Museum, Cape Town		2	
Institut Egyptien, Le Cairo, Egypt.....		5	
California. University of California, Berkeley.....	1	1	
Library, Leland Stanford Jr. University, Palo Alto.....	2	3	3
Academy of Sciences, San Francisco.....		13	
Colorado. Scientific Society, Denver.....	1	4	3
University of Denver.....	1		
Connecticut. State Board of Agriculture, Hartford.....	1		
C. E. Beecher, New Haven.....			1
Georgia. Geological Survey, Atlanta.....	3		
Illinois. Field Columbian Museum, Chicago.....		4	
J. P. Iddings, Chicago			1
University of Chicago.....		1	
State Board of Agriculture, Springfield.....	1	8	
" Laboratory of Natural History, Urbana.....		3	
Indiana. Academy of Science, Indianapolis.....	4		
Geological Survey, Indianapolis.....	1		
Iowa. Academy of Sciences, Des Moines.....	1		
Geological Survey, Des Moines.....	1		
Historical Society of Iowa, Des Moines.....	1	2	
Historical Department of Iowa, Iowa City.....	3		
State Historical Society, Iowa City.....		3	
Kansas. University, Lawrence.....	9	8	
State Agricultural College, Manhattan.....	1	16	
Kentucky. Polytechnic Society, Louisville.....	1		
Louisiana. State Experimental Agricultural Station, Baton Rouge.....		1	
State University and A. and M. College, Baton Rouge....		1	1
Tulane University, New Orleans.....	2		1
Maryland. Geological Survey, Baltimore.....	1		
Johns Hopkins University, ".....		4	
P. R. Uhler, Baltimore			1
Massachusetts. Agricultural College, Amherst.....		4	
American Academy of Arts and Sciences, Boston.....		19	
Appalachian Mountain Club, Boston.....	1	1	
Boston Public Library.....		13	
" Society of Natural History.....		10	
State Board of Agriculture, Boston	1		
" Library, Boston.....	7	3	2
Walter Faxon, Cambridge.....			3
Harvard College, Astronomical Observatory, Cambridge ..		3	
Museum of Comparative Zoölogy, Cambridge.....		9	

	Volumes	Parts and Numbers	Pamphlets
<i>Massachusetts—Continued.</i>			
Peabody Museum of American Archæology and Ethnology, Cambridge.....	3	3	1
Bussey Institution, Jamaica Plain.....		1	
Tufts College, Medford.....		1	
Essex Institute, Salem.....	1	6	2
E. S. Morse, Salem.....		8	
City Library Association, Springfield.....		1	1
Worcester Society of Antiquity.....			
Michigan. State Agricultural College Experiment Station, Agricultural College.....		15	
State Board of Agriculture, Agricultural College.....	1		
Minnesota. Historical Society, St. Paul.....		1	
Missouri. University of the State, Columbia.....	1		
State Horticultural Society, Jefferson City.....	1		
St. Louis Academy of Science.....		7	
Missouri Botanical Garden, St. Louis.....	1		
Public Library, St. Louis.....		17	
Nebraska. University, Lincoln.....	1		
New Jersey. Geological Survey, Trenton.....	2		1
New York. John M. Clarke, Albany.....			3
C. H. Peck, Albany.....	1		
State Geological Survey, Albany.....	1		
" Museum, Albany.....	1		
University of State, Albany.....	7	10	
F. H. Lattin, Albion.....	1	1	
Museum Publishing Company, Albion.....		11	
Buffalo Society of Natural History, Buffalo.....		2	
Cornell University, Ithaca.....	1	15	
Geological Society of America, Rochester.....	1		
Onondaga Historical Association, Syracuse.....		3	
L. I. Historical Society, Brooklyn.....			3
Natural Science Association, New Brighton, Staten Island..		9	
American Chemical Society, New York City.....	1		
" Geographical Society, New York City.....	1	1	
" Institute of Mining Engineers, New York City..	4		67
" Numismatic and Archæological Society, New York City.....		1	
Archæological Institute of America, New York City.....		8	
Columbia University, New York City.....	5		
Lemcke and Buechner, New York City.....	7		
Mercantile Library, New York City.....	1	1	
Metropolitan Museum of Art, New York City.....		1	
New York Academy of Medicine, New York City.....			1
" " " Sciences, " " ".....	2	2	
" " Botanical Garden, New York City.....		1	
" " Microscopical Society, New York City.....		1	
" " Public Library, New York City.....	1		
" " Zoological Society, New York City.....		1	
Torrey Botanical Club, New York City.....	1		
North Carolina. Agricultural Experiment Station, Raleigh....		14	
H. H. and C. S. Brimley, Raleigh.....		28	

	Volumes	Parts and Numbers	Pamphlets
North Carolina— <i>Continued.</i>			
N. C. Geological Survey, Raleigh		10	
E. Mitchell Scientific Society, Raleigh		2	
Ohio. E. W. Claypole, Akron			1
Cincinnati Society of Natural History		1	
Denison University, Granville	1	4	
Oberlin College		2	
Pennsylvania. Department of Agriculture, Harrisburg		10	
Dr. G. Brinton, Philadelphia			14
Benjamin S. Lyman, Philadelphia			3
Academy of Natural Sciences, Philadelphia	1	1	
American Philosophical Society, "		2	
Geographical Club of Philadelphia, "		1	1
Numismatic and Antiquarian Society, Philadelphia		1	
University of Pennsylvania, Philadelphia	1		3
Wagner Free Institute of Science, Philadelphia		1	
Zoological Society of Philadelphia, "		1	
Wyoming Historical and Geological Society, Wilkesbarre ..		1	
University of Wyoming, Laramie		4	
Rhode Island. A. S. Packard, Providence			1
Redwood Library and Athenæum, Newport		1	
Texas. Academy of Science, Austin		1	
Vermont. Fletcher Free Library, Burlington			1
University of Vermont and State Agricultural College, Burlington	1	4	
Middlebury College			1
State Agricultural Experiment Station, Montpelier		3	
State Geologist, Rutland	1		
Washington, D. C. Department of Agriculture	1	115	142
Department of the Interior	12	10	1
" " State		12	
Smithsonian Institution	10	2	1
Superintendent of Documents		11	
Treasury Department	5		
U. S. Civil Service Commissioner	1		
War Department	1		
Wisconsin. State Historical Society, Madison	5		
Academy of Sciences, Arts, and Letters, Madison	1		
Public Museum, Milwaukee	1		
Canada. Le Naturaliste Canadien, Chicoutimi	1		
Fruit Growers' Association, Grimsby	1		
Nova Scotian Institute of Natural Science, Halifax		1	
Entomological Society of Ontario, London	1		
Natural History Society of Montreal		3	
Numismatic and Antiquarian Society of Montreal		2	
Geological and Natural History Survey of Canada, Ottawa ..	1	1	
Ottawa Field Naturalists' Club	1	1	
Royal Society of Canada, Ottawa	1		
New Brunswick Natural History Society, St. John	1		
Canadian Institute, Toronto		14	
Manitoba Historical and Scientific Society, Winnipeg		3	
Costa Rica. Museo Nacional, San José	1		



EXPLORATION OF PREHISTORIC RUINS, "PUEBLO BONITO." HYDE EXPEDITION, 1896-98.

	Volumes	Pamphlets	Parts and Numbers
Mexico. Biblioteca de la Secretario de Fomento, Mexico.....	1	21	
Sociedad Cientifica "Antonio Alzate," Mexico.....		3	
" Mexicana d'Histoire Natural, "		3	
West Indies. Antigua Branch Leeward Islands Agricultural Society.....	1		
Institute of Jamaica, Kingston	1	9	
F. L. Guppy, Trinidad, Port-of-Spain			1
Agricultural Society, Trinidad, Port-of-Spain		3	
South America. Museo Nacional de Buenos-Aires.....	2	4	24
Bibliotheca Nacional, Rio de Janeiro, Brazil.....	16		10
Direccion General de Estadistica, La Plata, Brazil.....	2	3	
Museo de la Plata, Brazil.....	1	1	
Société Scientifique du Chili, Santiago.....		6	
Museo Nacional de Montevideo, Uruguay.....		2	
Museu Paulista, S. Paulo.....	2		
Asia. Royal Asiatic Society (Bombay Branch).....		1	
Asiatic Society of Bengal, Calcutta, India.....	1	14	
Indian Museum, Calcutta, India.....	2		
Madras Government Museum, India.....		1	
Imperial University, Tokio, Japan.....		1	
Koninklijke Natuurkundige Vereenig. in Ned-India, Batavia, Java	2		
Australasia. Australian Museum, Sydney.....	1	5	
Department of Mines and Agriculture, Sydney.....	1	1	2
Geological Survey, New South Wales, Sydney.....		1	
Government Statistician's Office, Sydney.....	5		
Linnean Society of New South Wales, Sydney.....		5	
Royal Society of New South Wales, Sydney.....	1	2	
New Zealand Department of Agriculture, Wellington.....	1	14	
A. G. Maitland, Brisbane, Queensland.....	1		
Robt. L. Jack, " "			2
Geological Survey, " "	1	1	
Royal Society, " "	1		
" " of Tasmania, Hobarton.....		6	1
" " Victoria, Melbourne		2	
" Geographical Society, "	1	6	
Field Naturalists' Club, Victoria.....		5	
Geological Survey Western Australia, Perth.....	1	2	
Austria-Hungary. Südslavische Akademie der Wiss. und Künste, Agram.....	3		
Der Ausschuss des Museums Ver. f. Vorarlberg, Bregenz..	1		
K. Magyarhoni Földtani Tarsulat, Budapest.....		11	
Magyar Nemzeti Museum, Budapest.....	1		
Société Royal Hongroise d. Sciences Naturelles, Budapest..	5	3	
Historischer Verein für Steiermark, Gratz.....		1	
Siebenbürgischer Verein f. Naturwissenschaft, Hermanstadt.	1		
Verein f. Siebenbürgische Landeskunde, Hermanstadt.....		3	
Ungar. Karpathen-Verein, Iglo	1		
Società Adriatica di Scienze Naturali, Trieste, Illyria	3		
L'Académie des Sciences de Cracovie, Poland.....	1	11	
K. Böhm. Gesellschaft d. Wissenschaften, Prag	6		
Verein f. Geschichte d. Deutschen in Böhmen, Prag.....		4	

	Volumes	Parts and Numbers	Pamphlets
<i>Austria-Hungary—Continued.</i>			
K. K. Ackerbau-Ministerium, Vienna.....	1		
K. K. Gradmessungs-Bureau, ".....		1	
K. K. Gartenbau-Gesellschaft, ".....		12	
Section f. Naturkunde d. Öster. Tourist-Club, Vienna....	1		
Verein zur Verbreitung naturwissenschaft. Kenntnisse, Vienna.....	1		
Kaiserliche Akademie der Wissenschaften, Vienna.....	2	5	
K. K. Geologische Reichsanstalt, Vienna.....	1	18	
K. K. Naturhistorisches Hof-Museum, Vienna.....	1		
K. K. Zoologisch-Botanische Gesellschaft, Vienna.....	1		
Naturwiss. Ver. d. Trencsiner Comitatus, Trencsin.....	2		
Belgium. Ch. F. Dubois, Brussels.....	4		
Société Royale de Botanique d. Belgique, Brussels.....	1		
" " Linn. d. Bruxelles.....		4	
" " Malacologique d. Belgique, Brussels.....	4	7	
" " Géologique de Belgique, Liège.....		4	
" " Royale des Sciences, Liège.....	1		
" " Scientifique de Bruxelles, Louvain.....	1		
Denmark. Kongelige Danske Videnskabernes Selskab, Copenhagen.....		6	
France. Société d'Emulation, Abbeville.....	3	1	
Société des Études, Lit. Scientif. et Artist. d. Lot, Cahors.....		1	
" " Nationale d. Sciences Nat. d. Cherbourg.....	1		
Union Géographique du Nord d. l. France, Douai.....		1	
Société Libre d'Ag. Science, Artes et Belles Lettres d. l'Eure, Evreux.....	1		
Société d'Horticulture de Fontenay Le-Comte.....		2	
L'Université, Laval.....	2		1
Museum d'Histoire Naturelle de Lyon.....	28		2
Faculté des Sciences de Marseilles.....		4	
Société des Sciences de L'Ouest de la France, Nantes.....		5	
D. P. Ehlert, Paris.....			1
Feuille des Jeunes Naturalistes, Paris.....		14	
Min. d. l'Instruction Pub. d. B. A. et d. Cultes, Paris.....	1	1	
Ministère des Travaux Publics, Paris.....		9	
Bibliothèque de Museum d'Histoire Naturelle, Paris.....		6	
Société de Géographie, Paris.....	1		
" " Entomologique de France, Paris.....	2		
" " Géologique de France, Paris.....		25	
" " Scientifique et Station Zoologique d'Arcachon, Paris.....	1		
Société Zoologique de France, Paris.....	1		
Académie des Sciences, Ins. et Belles Lettres, Toulouse....	1		
Germany. Dr. Hermann Fürst, Berlin.....	1		
R. Friedländer und Sohn, Berlin.....		24	
Ges. Anthropologie, Ethnologie u. Urgeschichte, Berlin....		5	
Gesellschaft für Erdkunde, Berlin.....		11	
Deutsche Geologische Gesellschaft, Berlin.....		4	1
Naturhistorischer Ver. d. preussischen Rheinlande, Bonn....	10	2	
Naturwissenschaftlicher Verein, Bremen.....		2	
Verein f. Schlesische Insektenkunde, Breslau.....	1		

	Volumes	Parts and Numbers	Pamphlets
<i>Germany—Continued.</i>			
Verein f. Naturkunde zu Cassel	1		
Naturforschende Gesellschaft in Emden.....	2		
Naturwissenschaftlicher Verein d. Reg.-Bez., Frankfurt ..	1	9	
Senckenbergische Naturforschende Gesellschaft, " ..	2	5	
Naturforschende Gesellschaft, Freiburg.....		3	
Société Fribourgeoise d. Sciences Naturelles, Freiburg....		2	
Naturforschende Gesellschaft, Görlitz.....	1		
Oberlausitzer Gesellschaft d. Wissenschaften, Görlitz.....		3	
K. Leop.-Car. Deutsche Akademie d. Naturforscher, Halle..		3	
Naturwissenschaftlicher Verein, Hamburg.....	1		
Zoologischer Garten, Hamburg	1		
Bibliothek des Polytechnicums, Karlsruhe.....			6
Königliche Physikalisch-Oekonomische Gesellschaft, Königsberg.....	1		
Königlich-Sächsische Gesellschaft d. Wissenschaften, Leipzig.....	6		5
K. Min.-Geol. u. Prähist. Museum in Dresden.....		1	
Verein für Erdkunde, Leipzig.....	16	2	
Naturwissenschaftlicher Verein, Lüneburg	1		
" " Magdeburg.....	1		
Gesellschaft zur Beförderung d. Gesammten Naturw., Marburg	1		
Königlich-Bayerische Akademie d. Wissenschaften, München.....	1	4	
Westfälischer Provinzial-Verein f. Wiss. u. Kunst, Münster.....	1		
Naturhistorische Gesellschaft, Nürnberg	1		
Naturwissenschaftlicher Verein, Osnabrück.....	1		
Schweizer Entomologische Gesellschaft, Schaffhausen.....		3	
Württembergischer Verein für Handelsgeographie, Stuttgart.....	2		
Nassauischer Verein für Naturkunde, Wiesbaden.....	1		
Königliche Universitäts Bibliothek, Würzburg			13
Schweizerische Gesellschaft f. d. gesammte Naturwiss., Zurich	1		
<i>England.</i>			
Naturalists' Society, Bristol.....		1	1
Philosophical Society, Cambridge.....	3		
Naturalists' Society, Cardiff.....	1		
Natural History Society, Hertfordshire.....		2	
Yorkshire Geological and Polytechnic Society, Leeds.....		1	
Literary and Philosophical Society, Liverpool.....		1	
Naturalists' Field Club, Liverpool.....	1		
Board of Agriculture, London.....		16	
British Museum (Natural History), London.....	2		2
Geologists' Association, London.....		3	1
Geological Society of London.....		7	1
Linnean " " "		3	
Royal Colonial Institute, London.....		8	
Royal Society, London.....		20	
Wesley and Son, London.....	22		
Zoological Society, London.....		6	1

	Volumes	Parts and Numbers	Pamphlets
<i>England—Continued.</i>			
Field Nat. and Archaeologists' Society, Manchester.....	1		
Geological Society, Manchester.....		16	
Geographical Society, Manchester.....		6	
Museum, Owens College, Manchester.....	1	6	
Literary and Philosophical, ".....	1		
Marine Biological Association, United Kingdom, Plymouth.	3	6	
Zoological Museum, Tring.....		4	
Ireland. Flax Supply Association, Belfast.....		2	3
Naturalists' Field Club, Belfast.....		1	
Scotland. W. E. Clarke, Edinburgh.....		4	
Royal Society, Edinburgh.....	1		
Natural History Society, Glasgow.....		1	
Philosophical Society, Glasgow.....	1		
Perthshire Society of Natural Science, Perth.....		1	
Italy. R. Istituto Lombardo di Scienze e Lettere, Milano....	1	2	
R. Accademia di Scienze Lettere ed Arti in Rovoreto, Modena.....		1	
R. Istituto Botanico di Palermo.....		5	
Società dei Naturalisti Siciliani, Palermo.....		4	
R. Accademia dei Lincei, Roma.....		26	1
Ministero d'Agricoltura, Industria e Commercio, Roma....		1	
Musei di Zoologia ed Anatomia, Torino.....		15	
R. Università, Torino.....	3		32
Netherlands. Koninklijke Akademien van Wetenschappen, Amsterdam.....	1	2	
Société Hollandaise des Sciences, Harlem.....		3	
Nederlandsche Dierkund. Vereeniging, Leiden.....	13	1	2
Rijks Universiteit, Leiden.....			2
Zealand Society of Sciences, Middelburg.....			3
Norway. Departementet for det Indre, Christiania.....	1	3	2
Videnskabernes Selskab, Christiania.....	2		
Museum, Stavanger.....		1	
Russia. Naturforschende Gesellschaft bei der Universität, Derpt.....	1		
Société des Sciences de Finlande, Helsingfors.....	3		
" " Naturalistes, Kiew.....		1	
" Impériale des Naturalistes, Moscow.....		4	
" des Naturalistes de la Nouvelle-Russie, Odessa....		1	
Comité Géologique de la Russie, St. Petersburg.....	1	9	
Horæ Societatis Entomologicæ, ".....	5	2	
Impérial Russian Society of Fishery and Fish, St. Petersburg.....	2		4
L'Académie Impériale des Sciences, St. Petersburg.....	2	22	
Russische-Kaiserliche Mineralogische Gesellschaft, St. Petersburg.....	1	3	1
Spain. R. Academia de Ciencias y Artes, Barcelona.....		1	
Sweden. Bureau of Geological Survey, Stockholm.....		12	
Kong. Vetenskaps och Vitterhets-Samhället, Gothenbourg.		1	
Kongl. Vitterhets Histoire och Antiquitets Akademien, Stockholm.....	17		2
Royal Swedish Academy of Sciences, Stockholm.....		15	

	Volumes	Parts and Numbers	Pamph- lets
<i>Sweden—Continued.</i>			
Lunds Universitatis Lundensis, Lund.....	1		
Société Entomologique, Stockholm.....		5	
Kongliga Universitetet Bibliotheket, Upsala.....		2	
Switzerland. Naturforschende Gesellschaft, Basel.....	1	1	
Naturforschende Gesellschaft, Bern.....	5		
“ “ Graubündens, Chur.....	1		1
Thurgauische Naturforschende Gesellschaft, Frauenfeld...		1	
Société Vaudoise des Sciences Naturelles, Lausanne.....		2	
Société Neuchateloise de Géographie, Neuchatel.....	5		
St. Gallische Naturwissenschaftliche Gesellschaft, St. Gall..	1		

PURCHASES.

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 Rossmässlers' Iconographie. 1898.
 Science. 1898.
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 Zoölogist (The). 1898.

DEPARTMENT OF GEOLOGY AND MINERALOGY.

PALÆONTOLOGY AND GEOLOGY.

BY DONATION.

- FRANK ABBOTT, M.D., New York City.
2 specimens of Fossil Fish, Utah.
- S. P. AVERY, New York City.
Number of Concretions (Clay Dogs), Lake Champlain.
- BARNUM BROWN.
Fossils from Kansas City, Mo., and Carbondale, Kan.
- E. CLARK, New York City.
Vertebræ of *Zeuglodon*, and Shark's teeth, Charleston, S. C.
- C. EICKEMEYER, Yonkers, N. Y.
2 specimens of Gum Copal, Zanzibar.
- Mrs. E. O. HOVEY, New York City.
Valves of *Dreissena polymorpha* L., Alexandropol, Russian Armenia.
- E. O. HOVEY, New York City.
Specimens of fossils from James River Valley, Va.
- PROF. LONG, Robert College, Constantinople.
Specimens of fossils from the Balta liman beds of the Bosphorus.
- F. C. NICHOLAS, New York City.
Specimens of Cretaceous fossils, U. S. Colombia.
- Mrs. G. STORY, Freehold, N. J.
Mould of *Calymene platys* Green, Freehold, N. J.
- R. P. WHITFIELD, New York City.
Lower Helderberg fossils, Clarksville, N. Y.
- DELAWARE AND HUDSON CANAL CO.
3 specimens of mud markings, flowage, etc., from near Albany, N. Y.
- W. WALLACE, New York City.
2 specimens *Favosites helderbergia* Hall, Cobleskill, N. Y.

BY EXCHANGE.

- 2 specimens of *Pironea polystylus*, from Cuatretonda, Spain.
- About 250 specimens of Upper Helderberg Corals and a few Univalves from
Falls of the Ohio, and Clark Co., Ind.

THROUGH MUSEUM EXPEDITIONS.

- FROM RUSSIA AND ITALY, collected by Dr. E. O. Hovey :
- | | |
|----|--|
| 2 | specimens of Coral and Ostracode limestone, Alexander Bridge,
Batraki, Volga River. |
| 60 | specimens of rocks, Ilmen and Ural Mts. |
| 25 | " " Caucasus Mts. |
| 40 | " " Russian Armenia. |
| 23 | " " Lipari Islands. |
| 14 | " of Obsidian, Pumice, etc., Lipari Is. |
| 16 | " " rocks, Stromboli and Strombolicchio. |
| 16 | " " " (Devonian), Ural Mts. |

MINERALOGY.

BY DONATION.

- E. L. ABBOT, New York City.
2 specimens of Fulgurites, Ustick, Whitside Co., Ill.
- A. AUERBACH & CO., Nikitovka, Russia.
5 specimens of Cinnabar, 1 specimen of Stibnite, Nikitovka, Russia.
- N. S. BERRAY, Walton, N. Y.
Specimens of Cuprite, Arizona.
- Miss M. W. BRUCE, New York City.
34 specimens of great beauty, embracing the mineral species Stilbite, Apophyllite, Heulandite, Microcline, Phacolite, Barite, Fluorite, Calcite, Celestite, Crocidolite, Stephanite, Smoky Quartz, Opalized Wood, and Galena, from localities in England, Australia, Iceland, and the United States.
- L. CAHN, New York City.
1 specimen of Apophyllite, Paterson, N. J.; 1 specimen of Quartz and Calcite, England; 2 specimens of Endlichite, Hillsboro, N. M.
- G. L. ENGLISH & CO., New York City.
Associated Galena, Sphalerite, and Chalcopyrite, Joplin, Mo.
- J. A. GRENZIG, Brooklyn, N. Y.
1 specimen of Pectolite on Prehnite, Woodcliff, N. J.
- A. E. HEIGHWAY, New York City.
Specimen of Corundum, Staurolite, and Rutile, from North Carolina.
- M. KWIATKOWSKY, Urals, through Dr. E. O. Hovey.
2 specimens of Malachite, Nijni Tagilsk, Urals.
- H. VAN HOEVENBERGH, New York City.
2 limonite concretions holding sand.
- J. A. MANLEY, New Brunswick, N. J.
Axinite, Roebbingite, and Rhodonite, from Franklin, N. J.
- T. R. McCARTY, New York City.
2 specimens of Pyrite, New Jersey.
- J. H. WINSER, New York City.
Specimen of Fuggerite, Le Selle, Monzoni, Tyrol.

BY EXCHANGE.

Two specimens of Nevadite, with lustrous Sanidine, from near Leadville, Col.

THROUGH MUSEUM EXPEDITIONS.

FROM RUSSIA AND ITALY, collected by Dr. E. O. Hovey:

40 specimens of minerals, embracing Cinnabar, Stibnite, Cuprite, Malachite, Chrysocolla, Garnet, Sodalite, Elæolite, Actinolite, Hornblende, Ilmenite, Vesuvianite, Chloritoid, Magnetite, Calcite, Aragonite, Tridymite, Leucite, and a large block of Augite, and Andesite perforated by lightning tubes.

BY PURCHASE.

- 9 specimens of minerals secured by Dr. E. O. Hovey, in Russia, embracing the species Malachite, Tourmaline, Orthoclase, Phenacite, Quartz, and Biotite.
- 1 opalized wood section, Clover Creek, Lincoln Co., Idaho; 1 specimen of Halite, California; Quartz crystals, four phantoms, and a quartz crystal with included bubble, Kingston, N. Y.; 1 large specimen of Calcite, Barrow-in-Furness, Engl.; 1 large specimen of Pyrite Group, Piedmont, Italy.



ZAPOTECAN FUNERAL URNS FROM MOUNDS AT XOXO, MEXICO. MUSEUM EXPEDITION, 1897-'98.

CONCHOLOGY.

BY DONATION.

- G. H. CHADWICK, Rochester, N. Y.
Siphonaria recveana Petit, New Zealand.
- PROF. E. D. COPE (deceased).
 Bequest of a large collection of fresh-water shells with *Neritina*.
- T. M. FRY, New York City.
 Specimens of *Unio corruscus* Gould, Lake Diaz, Fla.
- MRS. E. O. HOVEY, New York City.
 69 specimens of land shells from the Caucasus, Crete, and Athens.
- DR. E. A. MEARNS, U. S. Army. (Donated in 1892.)
 A varied collection of shells, embracing 65 species, and some hundreds of specimens of land, marine, and fresh-water shells, from Texas and Minnesota.
- NESMITH & CONSTANTINE CO., New York City.
 Large log of *Teredo*-perforated Mahogany, from Panama.
- M. H. SAVILLE, New York City.
 Specimens of *Pachycheilus*, Palenque, State of Chiapas, Mexico.
- PROF. C. H. SNOW, New York University.
 16 photographs of *Teredo*, *Limnoria*, and *Pholas*.

BY EXCHANGE.

- 46 specimens, 26 species, of fresh-water shells (*Unio*, *Anodonta*, *Margaritana*) from southern rivers and streams.

THROUGH MUSEUM EXPEDITIONS.

- COLLECTED AT THE NAPLES ZOÖLOGICAL STATION, by Dr.
 E. O. Hovey:
 163 specimens, 34 species, in alcohol, embracing various orders.

BY PURCHASE.

- One large *Strombus goliath* Chem., from the West Indies.

MARINE INVERTEBRATES.

BY DONATION.

- B. W. ANDREWS, New York City.
Veilella and *Octopus*, Bermuda.
- NEW YORK AQUARIUM.
 Large specimen *Limulus polyphemus* Linn.
- BROWN BROS., Nassau, N. P., Bahamas.
 3 specimens of *Diplotria cerebriformis* E. and H., from Nassau, N. P., Bahamas.
- DR. D. B. DELAVAN, New York City.
 12 handsome specimens of Corals, including species of *Pavonia*, *Astraea*, *Gemmipora*, *Mussa*, *Galaxea*, and *Pocillopora*, from eastern seas.
- F. W. LEGGETT, New York City.
 A specimen of the sponge *Pachychalina*, from St. Kitts, W. I., and a group of *Vermetus spiratus* Phil., from Bermuda.
- C. C. MARVIN, New York City.
 One specimen of Spotted Lobster.

- DR. PAUL MAYER, Naples, Italy.
10 specimens of *Caprella acutifrons* Latr.
- DR. JOSEPH A. NOLAN (deceased).
20 bottles of Invertebrates in alcohol (Tunicates, Asteroids, Mollusca, etc.).
- MRS. JOHN J. ROBERTS, New York City.
5 specimens of coral (*Millepora alcicornis* Less.), from the West Indies.
- R. P. WHITFIELD, New York City.
100 specimens of Corals; 20 specimens of Sponges; 20 Sea-fans, all from Nassau, N. P., Bahamas.

THROUGH MUSEUM EXPEDITIONS.

COLLECTED AT THE NAPLES ZOÖLOGICAL STATION, by Dr. E. O. Hovey:

163 specimens, 69 species (in alcohol), embracing Coelenterates, Echinoderms, Holothurians, Bryozoans, Worms, Crustaceans, and Tunicates.

COLLECTED AT NASSAU, N. P., BAHAMAS, by Prof. R. P. Whitfield:
One very large specimen of *Madrepora palmata* Lam.;
One very large specimen of *Orbicella annularis* Dana.

BY PURCHASE.

47 specimens, mounted in alcohol, embracing Hydrozoans, Actinozoans, Asteroids, Echinoderms, Holothurians, Bryozoans, Mollusca, and Worms; all from the Gulf of Naples, Italy, secured through Dr. E. O. Hovey.
One *Nautilus pompilius* Linn., with animal and bisected shell, from Polynesia.

DEPARTMENT OF VERTEBRATE ZOÖLOGY.

MAMMALS.

BY DONATIONS.

- ANASTASIO ALFARO, San José, Costa Rica.
13 Small Mammals from Guatemala.
- J. H. BATTY, Sheepshead Bay, N. Y.
1 South American Deer, 2 Squirrels, 3 Opossums, 4 Mice, 1 Rabbit, from Colombia, S. A.
- E. C. BECKLE, College Point, Long Island, N. Y.
1 Gray Squirrel.
- J. H. P. BELL, Gainesville, Fla.
3 Red Bats.
- PROF. ALBERT S. BICKMORE, New York City.
5 Skins of Hispid Seal.
- W. E. CARLIN, New York City.
10 Small Mammals from Bitterroot Mts., Idaho.
- S. H. CHUBB, New York City.
1 Red Squirrel.
- F. M. CLARK, New York City.
2 Persian Cats.
- J. A. CROWE, New York City.
1 Bat.

DEPARTMENT OF AGRICULTURE, Washington, D. C., through Dr.

C. Hart Merriam, Chief of Biological Survey Division.

24 Specimens, topotypes of recently described species, from Mexico and Guatemala.

DEPARTMENT OF PUBLIC PARKS, New York City.

15 Monkeys, 2 Lions (cubs), 2 Pumas, 2 Ocelots, 3 Bears, 2 Raccoons, 3 Coatis, 3 Foxes, 1 Seal, 1 Bison (calf), 1 Barbary Wild Sheep, 1 Nyghau, 3 Antelopes, 3 Deer, 1 Elk, 3 Porcupines, 1 Agouti, 1 Opossum.—Total, 48 specimens, received in the flesh from the Central Park Menagerie.

C. A. DEYO, Schoharie, N. Y.

1 Muskrat, 1 Skunk, 1 Mole, 1 Jumping Mouse.

CARL EICKEMEYER, Yonkers, N. Y.

2 Skins and 5 skulls.

EDWARD FUCHS, New York City.

1 Bat.

ABRAHAM GOLDBERG, New York City.

1 Mummified Cat.

FRANK J. GOULD, Irvington, N. Y.

1 St. Bernard Dog.

W. W. GRANGER, New York City.

3 Prong-horned Antelopes, 5 Coyotes, 5 Swift Foxes.

PIERRE HUMBERT, New York City.

1 Head of Newfoundland Caribou.

WILLIAM G. F. KOHL, New York City.

1 St. Bernard Dog.

RICHARD MCGREGOR, Palo Alto, Cal.

1 Gopher, 1 Vesper Bat.

WALTER F. MACKLIN, New York City.

1 Woodchuck.

Miss S. E. MOWER, New York City.

1 Skye Terrier.

H. J. ROSENBERG, Eastport, N. Y.

1 Chipmunk.

JOHN ROWLEY, New York City.

9 Squirrels, 1 Wood Hare.

W. E. SHELBOURNE, Magdalen Islands.

22 Small Mammals from Grosse Isle, Magdalen Islands, Gulf of St. Lawrence.

HARLAN I. SMITH, New York City.

1 Deer skull, 1 Raccoon skull, 1 Coyote skull, from British Columbia.

E. B. SOUTHWICK, New York City.

2 Young Gray Squirrels.

D. D. STONE, Oswego, N. Y.

2 Hairy-tailed Moles.

ERNEST SETON THOMPSON, New York City.

6 Small Mammals from Wyoming and Colorado.

C. H. TYLER TOWNSEND, Mesilla Park, N. Mex.

5 Small Mammals from New Mexico.

C. TRAVIS, Ardsley, N. Y.

2 Red Foxes.

HARRISON R. WILLIAMS, New York City.

1 Skin of Giant Anteater.

MRS. A. WITKOW, New York City.

1 Maltese Dog.

ROBERT T. YOUNG, New York City.

19 Small Mammals from Prince Edward Island.

JAMES M. CONSTABLE EXPEDITION.

2 Dall's White Sheep, and 60 Small Mammals, from Arctic America.

BY EXCHANGE.

764 Specimens, chiefly from California, Mexico, and Florida.

BY PURCHASE.

196 Specimens, mostly from California and Lower California.

BIRDS.

BY DONATION.

ANASTASIO ALFARO, San José, Costa Rica.

8 Bird skins from Cocos Islands, 12 bird skins from Guatemala.

BYRON ANDREWS, New York City.

5 Mounted birds.

ARTHUR D. ATWOOD, Tenafly, N. J.

1 Mounted American Osprey.

J. H. BATTY, Sheepshead Bay, N. Y.

2 Mexican Quails, 6 Central American Tanagers.

BLOCH BROTHERS, New York City.

1 Great Blue Heron.

A. BOOTH, Paterson, N. J.

4 Hawks.

ARTHUR W. BROCKWAY, Lyme, Conn.

1 Florida Wren, 1 Marian's Marsh Wren.

H. L. BURNELL, Brooklyn, N. Y.

1 Grebe.

JOHN L. CADWALADER, New York City.

3 Groups of European Game Birds.

FRANK M. CHAPMAN, Englewood, N. J.

3 Gulls, 1 Warbler, 2 House Sparrows.

Miss K. L. DAVIS, New York City.

1 Canary.

DEPARTMENT OF PUBLIC PARKS, New York City.

16 Parrots, 8 Eagles, 3 Owls, 3 Vultures, 1 Raven, 3 Pheasants, 1 Kingfisher, 1 Crane, 2 Swans, 1 Goose, 2 Pelicans, 1 Gallinule, 1 Heron, 1 Gannet.—Total, 44 specimens, received in the flesh from the Central Park Menagerie.

A. E. DOUGLAS, New York City.

1 Malformed Chicken.

ALEXANDER DOW, New York City.

1 California Vulture.

WILLIAM DUTCHER, New York City.

34 Small birds, from Fire Island Light, N. Y.

WILLIAM DUTCHER, through the Linnæan Society of New York.

29 Bird skins, mostly from Long Island, N. Y.

CARL EICKEMEYER, Yonkers, N. Y.

26 Mounted birds, 20 bird skins, 50 birds' eggs, and four nests.

- THOMAS J. EGAN, Halifax, Nova Scotia.
1 Pair of King Eiders, mounted.
- S. N. H. GALLARD, New York City.
1 Weaver Bird, 1 Dove.
- ARTHUR H. HELME, Miller's Place, N. Y.
4 Bird skins from Japan.
- S. D. HOWELL, Schoharie, N. Y.
13 Small birds.
- SAMUEL M. KLAGES, Crafton, Pa.
5 House Sparrows.
- MRS. JOHN S. LAMSON, New York City.
3 Humming Birds' nests, from Island of Barbadoes, W. I.
- PETER W. MARTIN, New York City.
1 Oriole.
- H. W. MENKE, Kansas.
7 Sets of birds' eggs, from Aurora, Wyoming.
- MRS. SUSAN MITCHELL, New York City.
1 Hybrid Canary.
- R. B. POTTER, Nyack, N. Y.
1 Hawk.
- H. J. ROSENBERG, Eastport, N. Y.
1 Wild Turkey.
- J. ROWLEY, New York City.
1 Finch, 1 Flicker.
- W. P. SHANNON, New York City.
1 Albino House Sparrow.
- ERNEST SETON THOMPSON, New York City.
6 Bird skins from Idaho, 97 bird skins from Canada.
- C. TRAVIS, Ardsley, N. Y.
1 Heron.
- THOMAS M. UPP, New York City.
1 Grass Parakeet.
- ROBERT WALKER, New York City.
1 Parakeet.
- MRS. F. W. WALTERS, New York City.
1 Bittern.
- CHAS. G. WOOD, New York City.
1 Case of birds' eggs (about 1000 specimens).

BY EXCHANGE.

134 Specimens, mostly Sea Birds.

BY PURCHASE.

65 Specimens, mostly from Florida.

REPTILES AND FISHES.

BY DONATION.

- BYRON ANDREWS, New York City.
1 Snake skin, 5 Fishes.
- DEPARTMENT OF PUBLIC PARKS, New York City.
180 Specimens of Fishes, mostly from the waters of New York State,
received from the New York Aquarium.

CARL EICKEMEYER, Yonkers, N. Y.

14 Reptiles, 5 Fishes.

BENJAMIN H. FITCH, New York City.

4 Lizards.

MRS. JAMES HALL, New York City.

1 Rattlesnake skin.

ALFRED T. JONES, New York City.

5 Lizards, from Chihuahua, Mexico.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

THROUGH MUSEUM EXPEDITIONS.

From the Jurassic of Wyoming, 141 specimens of parts of skeletons or separate bones of giant Reptiles (Dinosaurs), including four complete hind limbs ranging from seven to nine and a half feet in height.

From the Tertiary of Colorado, 300 specimens of Fossil Mammals, including several complete skeletons and many fine examples of new or very rare species.

BY EXCHANGE.

From the Paris Museum, casts of complete hind foot of *Dimodonsaurus* and skeleton of *Actinodon*.

Sent in exchange to University of Lyons, France, specimens or casts of 35 species of Fossil Mammals, representing the life of the Age of Mammals in America, and models of the ancient reptiles *Naosaurus* and *Hadrosaurus*.

DEPARTMENT OF ANTHROPOLOGY.

BY DONATION.

A. G. AGNEW, New York City.

Model of a Carretta from Italy.

A. AMMON (through South American Exploration Company).

Stone implement from Santa Marta, Colombia.

CAPT. STANLEY AMSBURY.

Boat from Anam.

BYRON ANDREWS, New York City.

Palm-leaf basket.

MRS. G. C. ARNOLD.

Pair of Lapland shoes made of reindeer skin.

HENRY E. AYRES (through South American Exploration Company).

211 agate beads from Santa Marta, Colombia.

MRS. SALLY MORRIS CORY, New York City.

A bronze chime, a cloisonné teaset, an opium jar, a Satsuma jar, and a cribbage board,—additions to the collection before given to illustrate Chinese customs.

J. DORENBERG, Darmstadt, Germany.

Photographic reproduction of an ancient Mexican Codex, formerly known as the Codex Dorenberg and now called the Codex Colombino. Also three photographs of ancient Mexican Atlatis.

JAMES DOUGLAS, New York City.

A large collection of Apache baskets and water-bottles. Also an Apache arrow.

CARL EICKEMEYER, New York City.

Ethnological collection from the Indian tribes of the southwestern United States; stone implements from several localities in the United States; pottery vessels and stone implements from Colombia, S. A.; two large photographs (framed) of New Mexican pueblos.

JESSE D. FIGGINS, New York City.

Two arrow points from Drummond, Va.

GEORGE H. FOUNTAIN, Plainfield, N. J.

Twelve chipped implements of argillite from near Plainfield, N. J.

SERGEY FRIEDE.

An Ainu coat.

M. RAYMOND HARRINGTON, Mount Vernon, N. Y.

Three stone mortars; several large quartzite chips from Westchester Co., N. Y.; one photograph.

H. C. HUMPHREY (through South American Exploration Co.).

Two pieces of pottery; one pottery vase and thirty-one stone beads from Santa Marta, Colombia.

B. T. B. HYDE, New York City.

A collection illustrating the making of a Navajo blanket, consisting of sheep pelts, wool in its several stages of preparation, native dyes, weaving implements, a loom with a blanket partly woven, and twenty-one photographs showing the Navajos at work making the dyes, preparing the wool and weaving; also a collection showing pieces of buckskin colored by native dyes.

ARTHUR CURTISS JAMES, New York City.

An extensive collection of Ainu objects from the Island of Yezo. This collection was secured by Mr. James, while in Yezo, during the cruise of the 'Coronet,' for the purpose of illustrating the customs of the Ainu. It consists of garments, ornaments, mats, fibres, loom, utensils, weapons, ceremonial objects, and model of Ainu house.

MORRIS K. JESUP, New York City.

A carved stone yoke from State of Vera Cruz, Mexico.

HUGH KELLY.

A stone axe and six potsherds from San Domingo.

GEORGE WISTER KIRKE, New York City.

An Indian shirt.

JOHN HOWARD LATHAM (through South American Exploration Co.).

Four stone objects; one egg-shaped stone; one perforated stone implement; and two celts from Santa Marta, Colombia.

DUKE OF LOUBAT, New York City.

A carved stone yoke from State of Vera Cruz, Mexico. A cast, made from Maudslay's moulds, of the largest stela at Quirigua, Guatemala (this is 25 ft. high and is the largest American sculptured monolith known). A cast from the Peabody Museum moulds of the second largest stela (23 ft. high) from Quirigua. A cast from Maudslay's moulds of the great stela (H) of the ruins of Copan, Honduras; and the back of stela D from Copan. Casts from the Peabody Museum moulds of stelæ A, B, E, I, J, P, 1, 2, 6, 7, 9, 11; altars T, Q, D, N, B, F, S, J, I, and sculptures 6, G2, A, A1, A2, all from Copan. A series of casts from the Royal Ethnological Museum of Berlin, as follows: 67 sculptures from Mexico, 4 from Peru, 4 from Asia, and 2 from Hawaii. A

collection of photographs by T. Maler of sculptures in Chiapas, Mexico, and Guatemala. A copy of the reproduction of the Codex Borgia, and numerous plates and volumes to illustrate the pictographic writings of the ancient Mexicans and Mayas.

CLARENCE B. MOORE, Philadelphia, Pa.

A counterfeit of a chipped flint implement.

J. V. SANTVOORD, New York City.

A Dakota doll.

JACOB SCHIFF, New York City.

A collection illustrating the use of the cocoanut palm by the Melanesians, and a collection illustrating the use of iron by the Africans.

SMITHSONIAN INSTITUTION, Washington, D. C.

Cast of one of the three slabs of the Tablet of the Cross of Palenque, Mexico.

BENJAMIN STRONG, JR. (through South American Exploration Co.).

Two ornaments made of serpentine from Santa Marta, Colombia.

OLIVER S. STRONG (through the South American Exploration Co.).

56 agate beads from Santa Marta, Colombia.

WILLIAM WALLACE (through the South American Exploration Co.).

387 agate beads from Santa Marta, Colombia.

W. A. WHITE, Sag Harbor, N. Y.

Several stone implements and four stone gorgets from New York State.

JOHN WISMAN, Brooklyn, N. Y.

Twenty-two chipped stone points from several localities in New York State.

CAPT. E. G. ZALINSKI, New York City.

Three Japanese spears.

FROM MUSEUM EXPEDITIONS.

THE JESUP NORTH PACIFIC EXPEDITION. Gift of Morris K. Jesup, New York City.

Specimens illustrating the religious ceremonials of the Kwakiutl. Collected by Mr. George Hunt.

Ethnological collection from the Lillooet and from Thompson River Indians. Collected by Mr. James Teit.

Archæological and ethnological specimens and photographs from Fort Rupert, Comox, Sanitch, and the delta of Fraser River. Collected by Harlan I. Smith.

Ethnological specimens from the Indians of the west coast of Washington. Collected by Dr. Livingston Farrand.

Plaster casts and photographs of Indians from Washington and southern British Columbia. Collected by Mr. Roland B. Dixon.

Ethnological specimens from Port Clarence, Alaska. Collected by Captain Miner Bruce.

THE HYDE SOUTHWESTERN EXPEDITION. Gift of B. Talbot B. Hyde and F. E. Hyde, Jr., New York City.

A collection of several thousand objects from the exploration of the ruins of the Pueblo Bonito, Chaco Cañon, New Mexico; human skeletons, pottery, implements, ceremonial objects, ornaments and carvings; also many photographs of the ruins and objects in place. Collected by G. H. Pepper.



THE GREAT MOUND AT XOXO, MEXICO. MUSEUM EXPEDITION, 1897-98.

A collection from the cliff-houses and caves of the Grand Gulch region of southern Utah, consisting of nearly two thousand objects, including mummies, baskets, pottery and weapons; implements of wood, stone and horn; feather blankets and cloth blankets; garments and sandals; also a number of photographs showing the method of burial of two different peoples in this region. Collected by Richard Wetherell and party.

EXPLORATIONS IN THE DELAWARE VALLEY. Gift of Dr. F. E. Hyde, New York City.

Stone implements from the glacial deposits at Trenton, N. J. Photographs showing the implements in place and the geological features; drawings and plans of the excavations; also human skeletons, stone implements, and other objects from the ancient burial-places and village-sites, near Trenton, N. J. Collected by Ernest Volk.

MEXICAN EXPEDITIONS.

Ethnological specimens from the States of Chiapas and Oaxaca, and photographs of Indians. Collected by M. H. Saville.

Archæological specimens from the explorations of mounds and tombs in Oaxaca and from the ruins of Palenque. Also many photographs of the explorations and ruins. Collected by M. H. Saville.

Archæological specimens from the ruins of Cempoalla; San Juan Teotihuacan; Valley of Mexico, and other places in Mexico. Collected by M. H. Saville.

Ethnological collections from the Tarahumaras and Huichols. These collections are particularly important on account of the full series of ceremonial objects of which the meaning was also obtained. Many photographs illustrating Indian types and ceremonies were taken, graphophone records of seventy Indian songs were made, and several human skeletons and numerous archæological objects were secured. Collected by Dr. Carl Lumholtz.

Human skeletons, and various objects found with them, from several caves and burial-places; plaster casts of 12 Tarahumaras and 14 Huichols; many full measurements of Tarahumaras, Huichols, and Tepecanos. Collected by Dr. A. Hrdlička.

A careful examination was also made by Doctors Lumholtz and Hrdlička of the remarkable adobe deposits at San Simon and other places, where a number of human skulls and four human skeletons were secured, with other objects found in these deposits.

JAPANESE EXPEDITION.

A collection illustrating the daily life of the Japanese people. Collected by Dr. B. Laufer.

EXPEDITION IN PERU AND BOLIVIA.

A large collection of pottery vessels, stone and copper implements, stone and metal utensils, personal ornaments, and various other objects from the graves and ruins of several localities in eastern Bolivia; also many human skulls, a number of which show trephining, from the chulpas of eastern Bolivia. Collected by Dr. A. F. Bandelier.

BY EXCHANGE.

FROM THE KÖNIGL. ETHNOGRAPHISCHES MUSEUM, Berlin.
Ethnological objects from Africa.

FROM THE KÖNIGL. ZOOLOGISCHES UND ANTHROPOLOGISCH-ETHNOGRAPHISCHES MUSEUM, Dresden.
Ethnological objects from Indonesia.

BY PURCHASE.

The Finsch Collection, consisting of a large number of objects illustrating the culture of the tribes of Melanesia and Micronesia; casts of faces and samples of hair of the natives; a detailed catalogue and many drawings and full descriptions of the specimens, by Dr. O. Finsch.

Ninety-five stone implements from New York State. An ethnological collection from the Gulf of Carpentaria. Ethnological specimens from the Goajira Indians. A large carved mammiform stone from the Island of Dominica. Ethnological specimens from North American Indians. Large pottery vessels from New York. Two suits of Japanese armor. A collection of ancient Tarascan pottery from near Ixtlan, Mexico. Several small collections of pottery, jade objects, ornaments, sculptures, and stone implements from various localities in Mexico.

DEPARTMENT OF ENTOMOLOGY.

BY DONATION.

- VERY REV. E. A. HOFFMAN, New York City.
2250 Mexican, Central and South American butterflies.
- DIXON G. HUGHES, through South American Exploration Co.
A collection of butterflies from Colombia.
- ALFRED G. EVANS, through South American Exploration Co.
A collection of butterflies from Colombia.
- E. A. PRATT, Ryde, Isle of Wight, England.
Two long-horn beetles from Colombia.
- WM. R. STARRETT, New York City, through South American Exploration Co.
3 ants' nests, from Colombia.
- DEVEREAUX TOLER, New York City, through South American Exploration Co.
A collection of butterflies from Colombia.
- L. H. JOUTEL, New York City.
2 *Saperda puncticollis*; 1 nest of hornet (*Vespa crabro*).
- B. CLÉMENCON, Hoboken, N. J.
Eggs of Japanese silk-worm moths.
- EDWARD DAMBACHER, New Jersey.
Borings of carpenter bee.
- J. MYERS, Hackensack, New Jersey.
Combs of honey bee.
- BENJAMIN LANDER, Nyack, N. J.
Larvæ of 17-year locust.
- J. H. BATTY, Gravesend, Long Island, N. Y.
Collection of butterflies from Colombia, S. A.

BY PURCHASE.

- 2 nests of hornet (*Vespa crabro*); 8 *Omus ambiguus*, from California; 150 specimens of *Catocala*; 40 Texan and Mexican butterflies; 1 aberration of *Pyrameis huntera*; a collection of beetles, from Colorado, Texas, and Arizona.

INCORPORATION.

AN ACT

TO INCORPORATE THE

AMERICAN MUSEUM OF NATURAL HISTORY,

Passed April 6, 1869.

The People of the State of New York, represented in Senate and Assembly, do enact as follows :

SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Charles A. Dana, Joseph H. Choate, and Henry Parish, and such persons as may hereafter become members of the Corporation hereby created, are hereby created a body corporate, by the name of "The American Museum of Natural History," to be located in the City of New York, for the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction and recreation.

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension, and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules, and Regulations. Until an election shall be held pursuant to such Constitution and By-Laws, the persons named in the first section of this Act shall be, and are hereby declared

to be, the Trustees and Managers of said Corporation and its property.

SEC. 3. Said Corporation may take and hold by gift, devise, bequest, purchase, or lease, either absolutely or in trust, for any purpose comprised in the objects of the Corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.¹

SEC. 4. Said Corporation shall possess the general powers, and be subject to the restrictions and liabilities, prescribed in the Third Title of the Eighteenth Chapter of the First Part of the Revised Statutes.

SEC. 5. This Act shall take effect immediately.

STATE OF NEW YORK, }
OFFICE OF THE SECRETARY OF STATE. } ss. :

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

[L. s.] Given under my hand and seal of Office at the City of Albany,
 this fourteenth day of April, in the year one thousand eight
 hundred and sixty-nine.

D. WILLERS, JR., *Deputy Secretary of State.*

¹ As amended by Chapter 303, Laws of 1898, of the State of New York, entitled "An Act to amend chapter one hundred and nineteen, laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' relative to its charter."

CONSTITUTION
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY,
IN THE CITY OF NEW YORK.

ARTICLE I.

This Corporation shall be styled the AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II.

The several persons named in the charter, and such others as they may add to their number, which shall not exceed twenty-five in all at one time, shall be the Trustees to manage the affairs, property, and business of the Corporation, and in case of the death or accepted resignation of any Trustee, a new Trustee shall be elected to fill his place by the remaining Trustees; but no election of a Trustee shall be held except at a quarterly meeting of the Trustees, on written notice of not less than one week, specifying that such election is to be held, and the vacancy which is to be filled; and every election of Trustees shall be by ballot, and no person shall be deemed to be elected a Trustee unless he shall receive the votes of at least three-fourths of the Trustees present.

ARTICLE III.

The Trustees shall meet quarterly, on the second Monday of every February, May, August, and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special

meeting, and of the object thereof, at least three days before the meeting is held.

ARTICLE IV.

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, and a Treasurer, all to be elected from the Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee, and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

ARTICLE V.

SECTION 1. The President shall have a general supervision and direction over the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act the First or Second Vice-President shall act in his place.

SEC. 2. The Secretary shall be appointed by the Board of Trustees. He shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives, and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its directions, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meet-

ing of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the Annual Meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under their direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

SEC. 5. The office of Secretary and of Assistant Treasurer may be held by the same person.

ARTICLE VI.

The Executive Committee shall consist of nine, of whom the President, First and Second Vice-Presidents, and Treasurer shall be four. The five members of the Executive Committee, elected in February, 1887, shall forthwith draw lots for terms of one, two, three, four, and five years, respectively, and the terms for which those drawing the two, three, four, and five years, respectively, were elected, are hereby extended to cover those periods; and hereafter at each annual election one member of the Executive Committee shall be elected to serve for five years. They shall have the control and regulation of the Collections, Library, and other property of the Museum; and shall have power to purchase, sell, and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

ARTICLE VII.

The Auditing Committee shall consist of three Trustees. It shall be their duty to examine and certify all bills presented

against the Corporation, and no bills shall be paid unless first approved by the President, or the Chairman of the Executive Committee, in writing, and by at least one member of this Committee.

They shall also have the books of the Museum duly audited at least once in six months by an authorized public accountant to be selected by them.

ARTICLE VIII.

The Finance Committee shall consist of four, including the Treasurer. It shall be their duty to take charge of and invest the funds of the Museum in its name and to take all proper measures to provide means for its support; and they shall have the sole custody of the securities belonging to the invested funds of the Museum, subject to the order of the Board of Trustees.

ARTICLE IX.

The Nominating Committee shall be composed of three, to whom shall be first submitted the name of any person proposed as a candidate for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as they may deem to be for the interest of the Museum.

ARTICLE X.

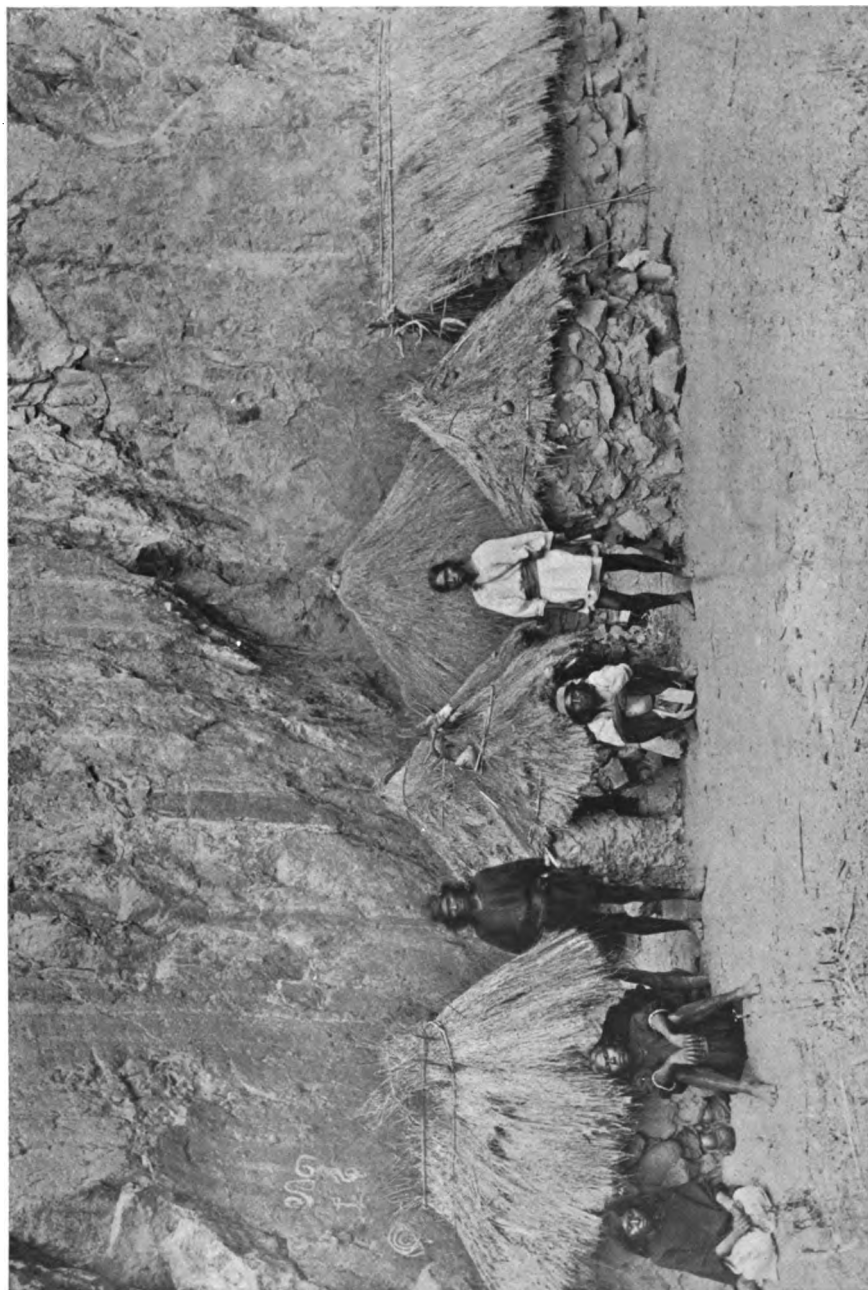
The President shall be a member, *ex-officio*, of all standing committees.

ARTICLE XI.

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

ARTICLE XII.

By-Laws may from time to time be made by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.



SMALL TEMPLE AND GOD-HOUSES OF THE HUICHOI INDIANS, MEXICO. MUSEUM EXPEDITION, 1897-98.

ARTICLE XIII.

The contribution of \$1000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of the above degrees, who shall have given to the Museum books or specimens, which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

ARTICLE XIV.

Any person who has held the office of President for ten or more successive years may be elected by the Trustees as Honorary President for life.

ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees; or at a special meeting called for this purpose, nor by the votes of less than a majority of all the trustees; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

BY-LAWS.

I.

Patrons, giving \$1000, are each entitled to 1 Subscriber's Ticket, 5 Complimentary Season Tickets, and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket, and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket, and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

II.

* Any Trustee who shall fail to attend three consecutive Regular Quarterly Meetings of the Board shall cease to be a Trustee, unless excused by the Board.

III.

No gentleman shall hereafter be eligible to the position of a Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board—excepting Trustees *ex-officio*—nor be eligible unless his name shall be presented by the Nominating Committee at a Regular Quarterly Meeting prior to the meeting at which said election shall take place.

IV.

No indebtedness (other than for current expenses) shall be incurred by any committee, officer, or employee of the Museum,

except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

V.

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

VI.

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

VII.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

VIII.

At such times as it may be impracticable to obtain the services of the members of the Auditing Committee, the members of the Executive Committee may act in their place and stead.

PATRONS.

MORRIS K. JESUP.
 ROBERT L. STUART.*
 Miss C. L. WOLFE.*
 ROBERT COLGATE.*
 FREDERIC W. STEVENS.
 PERCY R. PYNE.*
 JAMES M. CONSTABLE.
 JOHN B. TREVOR.*
 ADRIAN ISELIN.
 HUGH AUCHINCLOSS.*
 JOSEPH W. DREXEL.*
 WILLIAM E. DODGE.*
 JOHN D. WOLFE.*
 ABRAM S. HEWITT.
 C. VANDERBILT.
 J. PIERPONT MORGAN.
 CHARLES LANIER.
 D. JACKSON STEWARD.*
 EDWARD CLARK.*
 A. G. PHELPS DODGE.
 JAMES BROWN.*
 A. T. STEWART.*
 S. WHITNEY PHOENIX.*
 BENJAMIN H. FIELD.*
 WILLIAM T. BLODGETT.*
 OLIVER HARRIMAN.
 ROBERT BONNER.
 JAMES B. COLGATE.
 ALEXANDER STUART.*
 WILLIAM A. HAINES.*
 BENJAMIN AYMAR.*
 RICHARD ARNOLD.*
 JOSEPH H. CHOATE.
 JONATHAN THORNE.*
 Miss PHEBE ANNA THORNE.
 D. O. MILLS.
 JOHN A. C. GRAY.*
 HEBER R. BISHOP.
 CHAS. G. LANDON.*
 WILLIAM E. DODGE.
 PETER COOPER.*
 WILLIAM H. ASPINWALL.*

B. H. HUTTON.*
 J. TAYLOR JOHNSTON.*
 D. N. BARNEY.*
 I. N. PHELPS.*
 JAMES STOKES.*
 D. WILLIS JAMES.
 EDWARD MATTHEWS.
 WILLIAM T. GARNER.*
 JAMES LENOX.*
 A. H. BARNEY.*
 COLEMAN T. ROBINSON.*
 BENJAMIN B. SHERMAN.*
 JAMES R. ELY.
 JONAS G. CLARK.
 JOHN ANDERSON.*
 JOHN JACOB ASTOR.*
 WILLIAM WALDORF ASTOR.
 CATHARINE L. SPENCER.*
 JAS. GORDON BENNETT.
 CYRUS W. FIELD.*
 ALEX. H. BROWN, M.P.
 J. A. BOSTWICK.*
 FREDRICK BILLINGS.*
 Mrs ROBERT L. STUART.*
 JESSE SELIGMAN.*
 THEO. ROOSEVELT.
 OSWALD OTTENDORFER.
 J. HAMPDEN ROBB.
 J. F. LOUBAT.
 H. J. JEWETT.*
 WM. D. SLOANE.
 D. G. ELLIOT.
 LIEUT. G. T. EMMONS, U. S. N.
 C. P. HUNTINGTON.
 GEO. W. VANDERBILT.
 EDWARD D. ADAMS.
 WILLIAM C. SCHERMERHORN.
 JOHN J. CROOKE.
 HENRY SELIGMAN.
 RICHARD T. WILSON.
 JOHN E. PARSONS.
 FRANCIS O. MATTHIESSEN.

* Deceased.

A. J. FORBES-LEITH.
 GEORGE BLISS.*
 M. C. D. BORDEN.
 ARCHIBALD ROGERS.
 GEORGE C. COOPER.*
 Mrs. M. SCHUYLER ELLIOT.
 APPLETON STURGIS.
 THEODORE A. HAVEMEYER.*
 WILLIAM C. WHITNEY.
 GEORGE G. HAVEN.
 JAMES BAKER SMITH.
 CYRUS W. FIELD, Jr.*
 JAMES ANGUS.
 HENRY VILLARD.
 Dr. WM. PEPPER.*
 AUSTIN CORBIN.*
 ANSON W. HARD.
 GUSTAV E. KISSEL.
 ELDRIDGE T. GERRY.
 Dr. EDGAR A. MEARNs, U. S. A.

JOHN D. CRIMMINS.
 Mrs. WM. H. OSBORN.
 HENRY FAIRFIELD OSBORN.
 JONATHAN THORNE.
 VICTOR CORSE THORNE.
 EDWIN THORNE.
 JOEL WOLFE THORNE.
 W. M. DONGAN DE PEYSTER.
 HICKS ARNOLD.
 J. PIERPONT MORGAN, Jr.
 WM. CHURCH OSBORN.
 ALEXANDER I. COTHEAL.*
 WM. ROCKEFELLER.
 B. TALBOT B. HYDE.
 FREDERICK E. HYDE, Jr.
 L. P. DI CESNOLA.
 GEO. DEXTER BRADFORD.*
 HENRY O. HAVEMEYER.
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| Powel, de Veaux | Schernikow, Ernest | Stone, Edwin |
| Powell, Wilson M. | Schott, Charles M., Jr. | Stone, Mason A. |
| Pray, Joseph M. | Schultze, John S. | Stone, Mrs. Catherine C. |
| Pryer, Charles | Scribner, Mrs. J. Blair | Stone, Mrs. Georgiana C. |
| Purdy, Wm. Macneven | Scudder, Hewlett | Stone, Sumner R. |
| Putnam, George L. | See, Mrs. Horace | Storm, Clarence |
| Putnam, Mrs. Albert E. | Seligman, Isaac N. | Storm, George |
| Putney, W. B. | Sellew, T. G. | Stratford, Wm. |
| Pyle, Jas. Tolman | Sennett, George B. | Strong, Wm. L. |
| | Seton, William | Sturges, Henry C. |
| Quinlan, William J., Jr. | Sharp, W. W. | Sutherland, John L. |
| | Sherman, Charles A. | |
| Raymond, Charles H. | Sidenberg, Gustavus | Taber, John R. |
| Reilly, James | Sidenberg, Richard | Tailer, Edward N. |
| Renwick, Edward S. | Sill, Charles | Taintor, C. M. |
| Rhineland, Chas. E. | Simpson, John Boulton | Taintor, Charles N. |
| Rhoades, J. Harsen | Simpson, John W. | Talcott, James |
| Richard, Auguste | Sinclair, John | Talmadge, Henry |
| Riker, John L. | Sloan, Samuel | Tandy, Rev. P. W. |
| Riker, Samuel | Smith, Adon | Taylor, Mrs. Aug. C. |
| Riker, Wm. J. | Smith, Charles S. | Taylor, George |
| Robbins, Rowland A. | Smith, Geo. W. | Taylor, Peter B. |
| Robbins, S. Howland | Smith, James Rufus | Taylor, Stevenson |
| Roberts, Miss Mary M. | Smith, John Jewell | Tefft, F. Griswold |
| Rogers, Henry H. | Smith, Rev. Cornelius B. | Tefft, Wm. E. |
| Rogers, Noah C. | Smith, William Alex. | Tesla, Nikola |
| Roosevelt, Charles H. | Smith, W. Wheeler | Thomas, T. G., M.D. |
| Roosevelt, W. Emlen | Smyth, Philip A. | Thomson, Giraud F. |

Thompson, W. Prall	Van Winkle, Miss E. S.	Wicke, William
Thorne, W. V. S.	Vandervoort, W. L.	Wickes, Edward A.
Tiemann, Daniel F., 3d	Veit, Richard C.	Wickham, Delos O.
Tierney, Myles	Voorhis, Wm. W. L.	Weibusch, Chas F.
Tiffany, Louis C.		Williams, George G.
Tillinghast, W. H.	Wales, Salem H.	Williams, Richard H.
Titus, E., Jr.	Walker, William I.	Wills, Charles T.
Toel, William	Wallace, Lewis	Wills, Wm.
Tonnelle, John L.	Wallach, Antony	Wilmurt, Thos. A., Jr.
Toothe, William	Wardwell, Wm. T.	Wilson, George
Townsend, R. H. L.	Warner, Lucien C.	Wilson, John
Townsend, R. W.	Warren, W. R.	Wilson, Washington
Tracy, J. Evarts	Waterbury, John I.	Wing, John D.
Trevor, H. G.	Watson, Miss Emily A.	Winthrop, Egerton L.
Trevor, Mrs. John B.	Weatherbee, Mrs. E. H.	Witherbee, Frank S.
Turnure, Lawrence	Webb, W. H.	Wood, Mrs. Henry R.
Tuttle, Nathaniel	Weed, Benjamin	Woodward, F. F.
Twombly, H. McK.	Weed, Geo. E.	Wormser, Isidor
	Weekes, John A.	Wray, Miss Cornelia S.
Ullmann, E. S.	Wehrhane, Chas.	Wright, Benjamin
	Wertheim, H. P.	Wright, Miss F. E.
Valentine, Mrs. Lawson	Westcott, Robert E.	Wurzburger, A.
Valentine, Wm. A., M.D.	Wetherbee, Chas. L.	
Van Brunt, Cornelius	Wetmore, Dr. John McE.	Youmans, Ephraim M.
Van Brunt, Hon. C. H.	Wheelock, Dr. W. E.	Young, Edward L.
Van Emburgh, D. B.	Wheelock, Geo. G., M.D.	Young, Reginald
Van Ingen, Edward H.	Wheelock, Wm. A.	
Van Norden, Warner	Whipple, L. Edmund	Zabriskie, Andrew C.
Van Pelt, G. S.	White, Horace	Zickel, S.
Van Santvoord, A.	Whitehead, Chas. E.	Zinsser, Aug.
Van Vleck, Joseph	Whitehouse, J. Henry	Zinsser, Wm., Jr.
Van Winkle, Edgar B.	Whitney, Alfred R.	Zollikoffer, O. F.

DECEASED ANNUAL MEMBERS,

1898.

Cox, Allyn
Cruger, S. V. R.
Ewart, James M.
Gade, Henry
Gillis, Chas. J.

Hilyard, George D.
Lyman, T. C.
McGee, James
Packard, S. S.
Ranger, Louis

Rolston, Rosewell G.
Schwab, Hermann C.
Toucey, J. M.
Van Wickle, A. S.
Ward, Mrs. Thomas

In Memoriam.

On the occasion of the Annual Meeting of the Trustees of the American Museum of Natural History, held February 14, 1898, the following minute was unanimously adopted; the Secretary was directed to record the same on the minutes, and present a copy thereof to the family of their deceased colleague, Daniel Jackson Steward:

Resolved: That the Trustees hereby record their deep sorrow for the loss of their associate and friend

DANIEL JACKSON STEWARD.

Mr. Steward was associated with the Institution since its inception, having been one of its incorporators, and subsequently its Second Vice-President, to which office he was elected in 1878.

His deep interest as a Trustee was enhanced by an inherent love for all branches of natural history. The department which received his closest study was that relating to conchology, and the gift of his superb cabinet of shells attests his love for this domain of nature.

Mr. Steward was always earnest and painstaking in his duties, so long as his health permitted his presence at the meetings of the Board and the Executive Committee, and although permanently disabled by illness, his great interest in the collections remained unchanged.

We gratefully record an acknowledgement of his generosity in the gift which bears his name, and we recognize in the combination of his artistic instincts and mental accomplishments, a character pre-eminent in these qualities.

We hereby extend to his family, the expression of our individual sympathy, recalling the consoling thought of his honorable and unblemished life.

31
317515
THE

American Museum of Natural History

CENTRAL PARK, NEW YORK CITY.

(77th Street and Central Park, West.)



ANNUAL REPORT OF THE PRESIDENT,
TREASURER'S REPORT, LIST OF ACCESSIONS,
ACT OF INCORPORATION, CONSTITUTION,
BY-LAWS AND LIST OF MEMBERS
FOR THE YEAR 1899.

PRINTED FOR THE MUSEUM.

Case

Shelf

HARVARD UNIVERSITY.



LIBRARY

OF THE

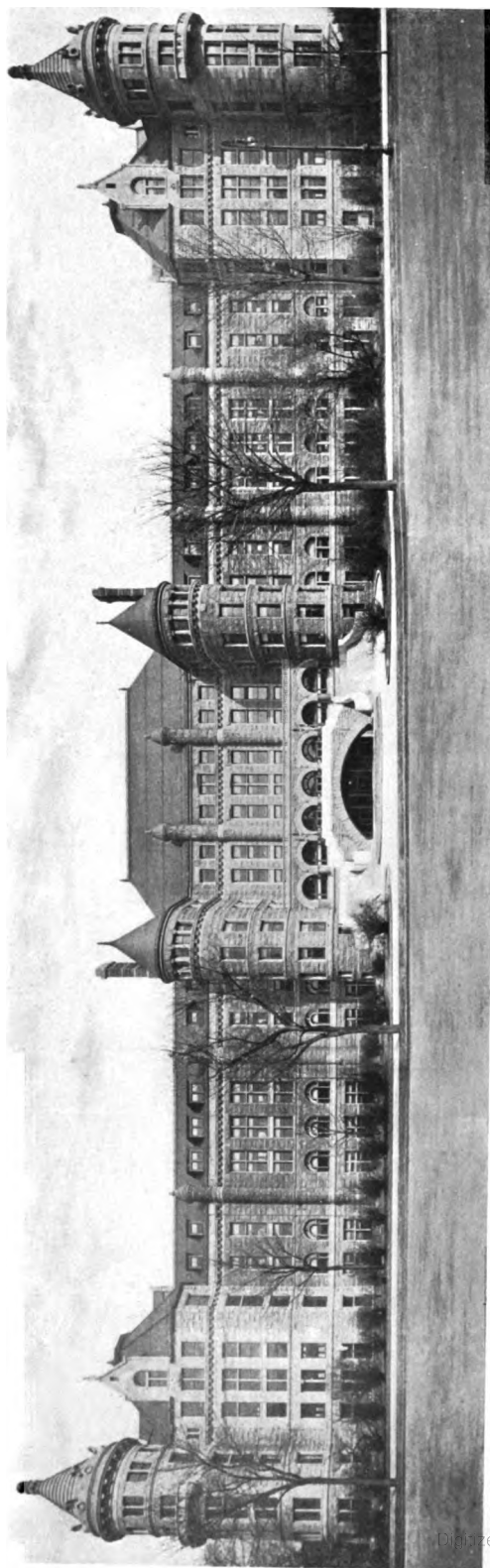
PEABODY MUSEUM OF AMERICAN
ARCHÆOLOGY AND ETHNOLOGY.

GIFT OF

the Museum.

Received

July 11. 1900



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Cady, Berg & Son, Architects.

AMERICAN MUSEUM OF NATURAL HISTORY
South Front. 1900

**THE
AMERICAN MUSEUM OF NATURAL HISTORY.**

A

THE
AMERICAN MUSEUM OF NATURAL
HISTORY,

CENTRAL PARK, NEW YORK CITY.

(77th Street and Central Park, West.)

3/10.

ANNUAL REPORT OF THE PRESIDENT,
TREASURER'S REPORT, LIST OF ACCESSIONS,
ACT OF INCORPORATION, CONSTITUTION,
BY-LAWS AND LIST OF MEMBERS
FOR THE YEAR 1899.



NEW YORK:
PRINTED FOR THE MUSEUM.

1900

WM. G. MARTIN PRINTING HOUSE
NO. 111 JOHN STREET
NEW YORK

RECEIVED,
JUL 11 1900
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BOARD OF TRUSTEES,

1900.

2

MORRIS K. JESUP.

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JOSEPH H. CHOATE.

*JAMES M. CONSTABLE.

WILLIAM E. DODGE.

J. HAMPDEN ROBB.

CHARLES LANIER.

D. O. MILLS.

ABRAM S. HEWITT.

ALBERT S. BICKMORE.

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ANDREW H. GREEN.

D. WILLIS JAMES.

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WILLIAM C. WHITNEY.

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WILLIAM ROCKEFELLER.

GEORGE G. HAVEN.

H. O. HAVEMEYER.

A. D. JUILLIARD.

FREDERICK E. HYDE.

PERCY R. PYNE.

* Deceased.

OFFICERS AND COMMITTEES

FOR 1900.

President.

MORRIS K. JESUP.

First Vice-President.

*JAMES M. CONSTABLE.

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WILLIAM E. DODGE.

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CHARLES LANIER.

Assistant to the President.

HENRY FAIRFIELD OSBORN.

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JOHN H. WINSER.

Executive Committee.

*JAMES M. CONSTABLE, *Chairman*.

MORRIS K. JESUP.

ANSON W. HARD.

CHARLES LANIER.

H. O. HAVEMEYER.

WILLIAM E. DODGE.

FREDERICK E. HYDE.

ARCHIBALD ROGERS.

PERCY R. PYNE.

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CHARLES LANIER.

D. WILLIS JAMES.

The President *ex-officio*.

Nominating Committee.

D. O. MILLS.

WILLIAM E. DODGE.

*JAMES M. CONSTABLE.

The President *ex-officio*.

* Deceased.

DEPARTMENT OF PUBLIC INSTRUCTION.

Prof. ALBERT S. BICKMORE, Curator.

DEPARTMENTS OF GEOLOGY, MINERALOGY, CONCHOLOGY,
AND MARINE INVERTEBRATE ZOÖLOGY.

Prof. R. P. WHITFIELD, Curator.

L. P. GRATACAP, Ph.B., } Assistant Curators.
Dr. EDMUND O. HOVEY, }

DEPARTMENT OF VERTEBRATE ZOÖLOGY.

Prof. J. A. ALLEN, Curator.

FRANK M. CHAPMAN, Assistant Curator.

JOHN ROWLEY, Taxidermist.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

Prof. HENRY FAIRFIELD OSBORN, Curator.

Dr. W. D. MATTHEW, } Assistant Curators.
Dr. O. P. HAY, }

DEPARTMENT OF ANTHROPOLOGY.

Prof. FREDERIC W. PUTNAM, Curator.

Dr. FRANZ BOAS,

Assistant Curator of the Ethnological Division.

MARSHALL H. SAVILLE,

Assistant Curator of the Archæological Division.

DEPARTMENT OF ENTOMOLOGY.

W. BEUTENMÜLLER, Curator.

LIBRARIAN.

A. WOODWARD, Ph.D.

SUPERINTENDENT OF BUILDING.

WILLIAM WALLACE.

FORM OF BEQUEST.

*I do hereby give and bequeath to "THE AMERICAN MUSEUM OF
NATURAL HISTORY," of the City of New York,.....*

.....

.....

THIRTY-FIRST ANNUAL REPORT.

To the Trustees and Members of the American Museum of Natural History:

I take pleasure in presenting the following report of the operations of the Museum for the year closing December 31, 1899:

FINANCES.—Your attention is invited to the Treasurer's report on pages 34, 35, 36 and 37. In response to a statement presented by me, showing the balances due on the purchase of collections, and the estimated deficit for maintaining the Museum during the year, the Trustees very generously subscribed the sum of \$68,500, as shown in detail in the Treasurer's report. I am gratified to record that the floating indebtedness of the Institution has been removed; the liberality of the Trustees has thus made it possible to extend its interests in the support of field work and the purchase of desirable material. The income of the Endowment fund has been depleted each year to make good the deficit in the cost of maintenance. From the time of opening the Museum to the close of this year \$241,283 have been diverted from this fund to make good the expense of maintaining the Museum in excess of the appropriations made by the city.

THE BOARD OF TRUSTEES.—At the annual meeting of the Board, held February 13th, Dr. Frederick E. Hyde was elected a Trustee, and subsequently made a member of the Executive Committee to serve for the term of five years.

On the closing page of this report will be found a resolution adopted by the Trustees in relation to the decease of our late associate, Cornelius Vanderbilt.

Mr. Vanderbilt was elected a Trustee in 1878, and actively served for eight years as a member of the Executive and Auditing

Committees. He was always zealous and punctilious in the performance of his duties as a Trustee, and generously coöperated in every project which would advance the interests of the Institution.

LEGISLATION.—Chapter 126 of the Laws of 1899, approved by the Governor March 23d last, authorizes the city to appropriate a further sum of \$40,000 for the maintenance of the Museum. I regret that it was not in the power of the Board of Estimate and Apportionment to grant an increase in the appropriation for the current year.

MEMBERSHIP.—Dr. Frederick E. Hyde, Mrs. John B. Trevor, Mr. John Belknap Marcou and Dr. Phillipe Marcou have been elected "Patrons." Mr. Robert S. Brewster became a "Fellow," and Messrs. James B. Ford, Morris Loeb, Grenville Lindall Winthrop, E. Dwight Church, Arthur Ryle, James Speyer, George C. Boldt, William L. Flanagan, August Belmont, James H. Hyde, J. Turner Atterbury, Norman Grant, Richard S. Lull, William R. Warren, Theodore Cooper and Mrs. Catharine L. Olmstead were elected "Life Members." The Museum has lost by death during the year, Cornelius Vanderbilt and Robert Bonner of its roll of "Patrons," and the following named "Life Members": Theodore D. Howell, Francis P. Freeman, John King, James Low, John G. Moore, E. R. H. Lyman, Henry B. Plant, Fred F. Thompson, Charles E. Tilford, Albon W. Towne. The names of deceased annual members are also recorded at the close of the report.

The loss of annual members caused by death and resignation has been more than offset by new subscribers, and the year closes with an increase of seventy members.

JOHN B. TREVOR FUND.—It affords me pleasure to refer to the very generous gift of \$10,000, received from Mrs. John B. Trevor. With the consent and approval of the donor the sum was invested in securitites to be designated "The John B. Trevor Fund," the income of which is to be expended in the discretion of the Trustees.

BEQUEST.—The will of the late Charles E. Tilford provides that the Trustees shall ultimately receive a bequest of \$25,000.

ADDITIONS TO THE BUILDING.—Early in the year the favorable conditions in the cost of building encouraged the Trustees to consider that the time was opportune for the completion of the east and west wing corners and the new Lecture Hall, and that the unexpended balances from the several appropriations would be sufficient to meet the cost of this work. We were disappointed in our expectations, however, owing to the rapid increase in the cost of labor and the great advance in the cost of iron construction. These conditions compelled the abandonment of the first series of plans and the preparation of a scheme modified to meet the situation. Specifications were prepared for the completion and equipment of the new Lecture Hall only; the present hall being inadequate to meet the increasing demands of the public. The contract was awarded to Thomas Cockerill & Son, they being the lowest bidder; and I am assured that the Lecture Hall will be completed during May, 1900.

TRANSPORTATION.—It is a pleasure to acknowledge the courteous and liberal assistance accorded the Museum by the following railroad companies: The Central Pacific, the Union Pacific, the Wabash and Missouri Pacific lines, the Canadian Pacific, the Chicago & Northwestern, the Atchinson, Topeka & Santa Fé, the Denver & Rio Grande, the Mexican Central, the Internacional, and the Erie. These corporations have substantially aided the work of our field parties in the Western and Southwestern States, and in British Columbia.

Early in the year an invitation to visit the Museum was extended to the President of the United States of Mexico, in anticipation of his proposed tour of our country; the visit was deferred owing to the pressure of his official duties. Secretary of State Mariscal and suite subsequently visited the Museum on October 18th, and were received and entertained on behalf of the Board of Trustees.

ATTENDANCE.—The number of visitors from January 1st to December 31st was 458,451. The report is very gratifying, inasmuch as we were obliged to close the Museum on Tuesday and Saturday evenings between May and October, in order to

make many needed alterations and repairs to the steam and electric lighting plant.

During previous years no record was kept of the number of school children visiting the Museum. This class of visitors became very noticeable in the early months of the year, and a card system was adopted showing the name or number of the school, whether a public or private school, the grade of the class and number of visitors, and the name of the teacher in charge. Desiring to afford these pupils the largest use of the collections, I gave instructions that classes with their teachers should have free admission on every day of the week regardless of the closed days. The results have been very gratifying.

From the date of the first record, May 20th, to December 31st, 2,988 scholars have visited the halls to study the specimens under the supervision and instruction of their teachers; the latter it is fair to assume also profited largely by the knowledge acquired. More than half of these scholars came from this city and the remainder from Brooklyn, Newburgh, Whitestone and Staten Island, while fifteen cities and towns in New Jersey contributed 638 of the total number.

ACCESSIONS.—A detailed list of accessions is appended in the later pages of this report. Bradford's well-known oil painting of "The Polaris in the Ice at Thank God Harbor," was presented to the Trustees by C. P. Huntington, Esq., and Mrs. Robert Woodworth presented a marble bust of "Milton"; these gifts are placed in the public reading room of the Library. The Peary Arctic Club of this city has donated a number of valuable specimens collected during the year by Lieut. Robert E. Peary in the Arctic regions, and brought here on the return of the supply vessel sent North during the summer. The American Ethnological Society of this city has permanently deposited its library with the Museum. The library numbers 750 volumes and 270 pamphlets, mostly referring to Ethnology and Archæology.

EXPEDITIONS.—Each year's work of the Museum in the field of exploration develops the importance of its expeditions in securing valuable material. The following brief summary of the reports of

the Curators in this connection will give a general idea of the results of the several expeditions during the past year.

THE JESUP NORTH PACIFIC EXPEDITION.—Dr. Berthold Laufer continued his work on the Amoor and returned to Japan early in November. According to last reports he was awaiting the arrival of his collections, which are to be shipped from Japan to the Museum. His reports indicate that the results of his investigations are of great importance. Dr. Laufer investigated thoroughly the Aino and Gilyak of the Island of Saghalin, and later he visited the Gold and Gilyak tribes inhabiting the banks of the Amoor. On his journey down the river he discovered interesting archaeological remains. His collections illustrate the industries, customs and beliefs of the peoples he visited; he also secured much information relating to the native languages.

Mr. Harlan I. Smith spent five months on the coast of Washington and British Columbia continuing his investigations on the archæology of that region. The most important results of his journey are the establishment of the southern limits of North Pacific culture and of the distribution of cairn burial on Vancouver Island. He made an extensive collection illustrating the archæology of the Puget Sound region and of the interior of southern British Columbia, which is of great importance for a study of the distribution of the prehistoric tribes in that area.

Mr. George Hunt continued his work among the Kwakiutl tribes of northern Vancouver Island. He has sent an interesting collection of the ceremonial objects, tools and implements of that tribe, accompanied with full explanations.

Mr. James Teit visited the Lillooet tribe, and made a collection which shows the influence of the Coast tribes upon this people.

NORTH AMERICAN INDIAN RESEARCH.—A beginning has been made in the investigations on the Indian tribes of North America, with the special view of studying the vanishing customs of the Plains Indians. The results of these investigations are very encouraging, and it is to be hoped that the Museum may be able to continue and extend its work in this direction.

Through the generosity of Mr. C. P. Huntington an explorer was sent to California. The work was intrusted to Mr. Roland

B. Dixon, who investigated the Maidu Indians of northern California. The results of his work are an interesting collection of basketry, utensils and feather ornaments of these Indians, and a series of casts and photographs illustrating the type of people. Besides this, Mr. Dixon accumulated considerable material on the structure of the Maidu language and much ethnological information. In connection with the Huntington investigations in California an important collection of pottery of the Southwestern tribes was made by Mr. G. P. Winship.

A gift from Mrs. Morris K. Jesup enabled us to send another investigator to Indian Territory. Mr. Alfred L. Kroeber was charged with the investigation of the Arapaho Indians. He made a very important collection illustrating the ceremonials and the symbolism of the tribe which is of special value to this Museum. Mr. Kroeber's work is also of great scientific interest on account of the new information obtained in regard to the significance of decorative designs of the Arapaho. Mr. Kroeber also secured much linguistic material.

ESKIMO RESEARCH.—In 1897 a full list of desiderata and suggestions for enquiries was furnished to Capt. George Comer who was about to visit the west coast of Hudson Bay. Capt. Comer, in following out these suggestions, made an excellent collection illustrating the arts and customs of the Eskimo tribes which he visited at Chesterfield Inlet, Wager River and Southampton Island. The collection from the Southampton Island Eskimo is remarkable on account of the primitive character of the tribe, which has never been visited by whites and is still living in the stone age.

THE HYDE SOUTHWESTERN EXPEDITION.—The work of this expedition, which is entirely under the patronage of the Messrs. B. Talbot B. Hyde and F. E. Hyde, Jr., consisted in the further exploration of the ruins known as "Pueblo Bonito," in the Chaco Cañon, New Mexico; the exploration of several ancient burial sites near other ruins in the Chaco and adjoining cañons; the examination of ruins in the cañons, on the mesas, and in the cliffs, as part of a general survey of the archæology of the region included in the adjoining corners of Colorado, New Mexico, Utah

and Arizona. The Curator of the Department was in the field with this expedition for several weeks. The other members of the expedition for the season were Mr. F. E. Hyde, Jr., Mr. G. H. Pepper, Mr. Richard Wetherill, Prof. R. E. Dodge and Dr. A. Hrdlicka. To Professor Dodge was assigned the investigation of the geological and geographical conditions and a study of the geological evidence of the antiquity of the ruins with special reference to those in the Chaco Cañon. Dr. Hrdlicka was charged with the special work of securing human skeletons, and of making a study of the living Indians in the region, in order to obtain somatological data for comparison of the ancient with the modern peoples. Messrs. Pepper and Wetherill continued the special exploration of the ruins of Bonito, in which they have been so successfully engaged for the past three years. The Curator's time was devoted principally to a study of the facts relating to the antiquity of the ruins and to the cause of the desertion of this ancient pueblo by a once numerous and agricultural people, after so much labor had been expended in house building and in extensive irrigation. In addition to the very large collection of objects obtained by the parties attached to the expedition, there was also secured an exceedingly important collection from the ancient burial caves in Grand Gulch, the remains of a people evidently distinct from the builders of the ancient stone pueblos and cliff-houses.

THE PERUVIAN EXPEDITION.—The researches by Dr. Bandelier in Peru and Bolivia, of which mention has been made in past reports, have been continued during the year; a large shipment of specimens obtained from ancient sites in the vicinity of Lake Titicaca is now on its way to the Museum. This expedition was begun under the patronage of Mr. Henry Villard in July, 1892, and has since April, 1894, been continued by the Trustees of the Museum. The collection already received is very extensive, and illustrates the highest stage of civilization attained in prehistoric time in South America.

THE EXPLORATION OF THE TRENTON GRAVELS AND OF THE DELAWARE VALLEY.—This important research has been continued through the year by the generous patronage of Dr. F. E. Hyde. Mr. Ernest Volk has thus been able to continue his daily exam-

ination of the glacial gravel as it is removed by the railroad company, or of the underlying sand as it is dug away for the use of the potteries, or with his trowel to enlarge his trenches inch by inch. During this careful work numerous stone implements have been found *in situ* in what is admitted by several competent geologists to be the deposit made at the closing of the glacial period. He has also secured a portion of the scapula of a musk ox which was found in the sand layer underlying the true glacial gravel. On the first day of December last, Mr. Volk himself discovered and removed with his own hands a fragment of a human femur, which was *in situ* seven feet from the surface in the sand layer beneath the undisturbed glacial gravel, the true Trenton gravel of all geologists. Photographs and careful observations bearing on this most important discovery were made; and there seems to be no reason to doubt that this bone is as old as the deposit in which it was found. The bone is very white and chalky, and upon its surface can still be traced a number of striæ having the appearance of glacial scratches, like those on a highly polished pebble taken from the same layer a few feet distant. On December 6th Mr. Volk found three fragments of a portion of a human parietal in the talus about twenty-five feet from the spot where the femur was discovered *in situ*. These pieces of a human skull were lying on the recently fallen talus in such a position that it was evident they had been dislodged from the sand layer under the gravel. Like the femur, they are chalky, striated and slightly stained by iron derived from the gravel. The three pieces fit together and form part of a parietal bone. Mr. Volk has also discovered in one of his deep trenches, at about six feet from the surface, fragmentary remains of portions of three skeletons lying near together and below an unbroken, unmixed thin stratum of sand. The geological conditions relating to this discovery are not yet fully understood; but that the age of these skeletons is very great there can be no doubt. Mr. Volk has also been able to carry on an exploration of an Indian site on the lowlands near Trenton, from which he has obtained several skeletons in good condition, as well as a large quantity of artifacts of various kinds. It is hoped that Mr. Volk's employment in archæological researches in various parts of the upper Delaware valley may be continued.

W. B. Feltman

HALL CONTAINING LOUBAT COLLECTION, ILLUSTRATING THE PRE-HISTORIC SCULPTURES OF MEXICO AND CENTRAL AMERICA



ARCHÆOLOGICAL EXPLORATIONS IN NEW YORK.—By the assistance of Mr. Theodore Cooper and Mr. William R. Warren, several important explorations have been made within the city limits, at Croton Neck and at a few other places in the State. These explorations were intrusted mainly to Mr. M. Raymond Harrington. Mr. M. H. Saville made an exploration of an Indian site in Schoharie County, where he obtained a number of stone implements ; but the explorations could not be carried on to the extent desired. In Pelham Park, on the shores of Pelham Bay, Mr. Harrington was successful in the exploration of an old Indian village site and burial-place, from which he obtained several Indian skeletons and many bones of animals which had been used for food ; also pottery, stone implements, and various other objects. At Croton Neck there is a large artificial embankment connected with an Indian village site and burial-place. Here, by permission of the brick company owning the land, Mr. Harrington made extensive explorations. He found a number of skeletons of Indians, with many implements of stone and bone, considerable Indian pottery, and a few ornaments of Indian make. He secured also several objects which the Indians had obtained from the early settlers, showing that this site was occupied by the Indians until after the settlement of New York. Mr. Harrington also explored, in whole or in part, several shell-heaps. He examined, besides, a number of Indian sites in Westchester and Rockland counties and on Long Island. Altogether these explorations and examinations have added important and authentic material to our yet meagre collection illustrating the Indian occupation of New York and its vicinity. They have also proved that much can still be found if no time is lost in continuing the research.

RESEARCH IN FLORIDA.—In the spring of 1899, thanks to the kindness of Mrs. Esther Herrman, the Curator of the Department of Anthropology was able to give a few weeks to archæological and geological researches about Tampa Bay, Florida. By the assistance of Capt. B. Coe, who kindly put his steamer and dredges at the disposal of the Curator, the latter was able to have pass under his eyes a large amount of the phosphate material dredged from the bottom of the Alafia River. Brought up with the bones

of many extinct animals of late tertiary times, were several implements made of the bones of a large deer, and a few chips of chalcedony. While the discovery of these implements does not prove any geological antiquity,—since they may have been made from a still existing elk and have been washed into the river,—yet they are of interest in connection with the considerable number of bones and teeth of extinct animals which were obtained.

The material received from the special expeditions, to which reference has been made, the several exchanges and important collections purchased, and the numerous gifts of friends, have resulted in the greatest number of accessions ever received by the department in a single year. Over 16,000 entries, including several times that number of specimens, have been made during the year in the catalogue of the Department of Anthropology.

The past five years have exemplified what can be done in gradually forming in the various divisions of anthropology, collections that shall be worthy of this great Museum. Already the collections in archæology, ethnology and physical anthropology have placed the Museum in the very front rank in anthropology, while in several of its sections it is far in advance of all other museums. In other sections, however, it is still far behind in presenting the history of man and his works. While we should not curtail in the slightest degree any of the special work which, thanks to the patrons of the Museum, the department is now so successfully prosecuting, we must hope and strive for the means of doing similar work in other regions. Now is the time to make our utmost efforts to collect in various fields. Every year is making both archæological and ethnological research more difficult, and delay in the work means less results at greater cost. The archæology and ethnology of a large portion of America is inadequately or not at all represented in our collections, while our exhibits from Europe, Asia, Africa, Australia, and many of the Pacific Islands are very meagre. From all these regions we should have large collections, and for this work we must hope that special patrons will come to the assistance of the Museum.

Three expeditions were conducted by the Department of Vertebrate Palæontology as follows :

1. DINOSAURS.—The third expedition for Dinosaurs was conducted by Mr. Walter Granger under the direction of the Curator, in the Jurassic beds of Wyoming. Continued explorations of the famous "Bone Cabin Quarry" resulted in the discovery of 131 specimens of Dinosaurs, many of which were new to our collection. Nearby was found nearly one-half the skeleton of the largest Dinosaur known, the Brontosaurus, an extremely valuable accession. The party also secured part of the skeleton of a fossil crocodile and of an Ichthyosaur. Dr. W. D. Matthew rendered valuable assistance to this expedition. The Curator spent two weeks in the supervision of this work in the field. Prof. R. S. Lull, of Amherst, coöperated ably as a volunteer, and has since been made a life member of the Museum.

2. MAMMALS.—The eighth expedition for fossil mammals was conducted by Mr. J. W. Gidley in northern Texas. These beds have been very little explored, and we secured a remarkable collection including five more or less complete skeletons of the fossil horse, the last representative of its race, greatly needed to illustrate the evolution of horses in America. Also the fore limb of a Mammoth, a considerable part of the skeleton and a complete skull of a Mastodon, all beautiful exhibition material.

3. PATAGONIA.—The Patagonian Expedition was continued by Mr. Barnum Brown, who has reported frequently upon his very successful work. Fourteen boxes of fossils have been received at the Museum, and Mr. Brown has been directed to return to work this material up and receive more specific instructions for his future work. He reports a fine lot of material, which will supplement our purchase of the Cope Pampean Collection in giving us the history of the life upon our sister continent.

ZOÖLOGICAL EXPEDITIONS.—The Museum has received during the year important collections from the James M. Constable Expedition to the Northwest Territory and Arctic America, conducted by Mr. A. J. Stone, including a fine series of specimens of the Arctic White Sheep, and a number of specimens of a new species

of Caribou, as well as many small mammals, several of which proved new to science. Not less important are the geographical results of Mr. Stone's work, and the large amount of information he obtained respecting the distribution and habits of the large mammals of the far North. It is hoped that means will be found for continuing Mr. Stone's work during the coming year.

Explorations in the United States of Colombia, conducted by Mr. Herbert H. Smith, and made practicable by the support afforded the Expedition by the President, have resulted in the addition of one of the finest and largest collections of mammals ever collected at any single locality in South America, and a very large and exceedingly valuable collection of birds. Provision has been made for the continuation of the work for another year.

Arrangements have also been made for extensive zoölogical work during the next two years in Eastern Siberia, an experienced zoölogical collector having been detailed to accompany the field party of the Jesup North Pacific Expedition assigned to this section of the work.

DEPARTMENT OF ANTHROPOLOGY.—In the Department of Anthropology a large amount of work has been accomplished during the year, both in the field and in the Museum. The several expeditions have brought in a mass of material collected by trained archæologists and ethnologists. The specimens thus collected are of great scientific importance, as every object is authentic, illustrates some particular phase of the status of culture of extinct or present tribes, and furnishes the means of comparative study and the determination of relationships of the various peoples. The illustration of the life history of the various groups of man is thus constantly being developed in the Museum, as collection after collection is arranged and brought into its proper place in the exhibition halls.

During the year the north ethnological hall (No. 106) has been arranged so as to show in an instructive manner the great mass of material illustrating the archæology and ethnology of the northwestern portion of America. The cases in the western part

of the hall are filled with collections secured by the Jesup North Pacific Expedition on the 'Island of Vancouver and in British Columbia and Alaska; the other collections from the same region are so arranged as to particularly illustrate different subjects pertaining to the manufactures, arts, ceremonies and mode of life of the people. This hall was re-opened to the public on Thanksgiving Day.

In December the arrangement of the west hall (No. 408) on the fourth floor was completed, and it was immediately afterward thrown open to the public. This hall is devoted to the archæology of Mexico and Central America, and contains the instructive and imposing series of casts presenting in fac-simile the great stelæ, altars and other large stone sculptures, and many slabs with finely carved bas-reliefs. The numerous hieroglyphic inscriptions on these sculptured stones, the representations of mythical animals and the symbolic carvings, furnish a mass of material for the study of the ancient civilizations of Mexico and Central America which is unsurpassed in any museum. Added to this are many original specimens of sculptured stones, of pottery and of ornaments, together with a remarkable collection of carvings and ornaments of jadeite and an exhibit of copper objects. To further facilitate the study of the Mexican pictograph writing and the Maya hieroglyphs, there are here placed on exhibition reproductions of a number of ancient Mexican and Maya codices. The student is thus provided in this single hall with materials for study which, before this collection was brought together, he could not have seen except by traveling long distances in America and Europe in order to find a sculpture here and a codex there. In this hall he can compare the objects directly one with another as he carries on his investigations. It is unquestionably an unequaled exhibit for the encouragement of research,—one that will naturally lead to the further study of ancient American civilizations. As the difficulty of securing such material increases from year to year, the value of such a collection is correspondingly enhanced. We are greatly indebted to the Duke of Loubat, the generous patron who has made it possible for the Museum to make this unique exhibit,—the most important collection in existence for the study of the ancient civilizations of Mexico and Central America.

The west hall (No. 308) on the third floor, containing the South American exhibits, and the west ethnological hall (No. 109) on the first floor, in which are arranged the collections relating to the Indian tribes of North America and to the Eskimo, are in a forward state of preparation for final opening. The cases in the west hall (No. 210) on the second floor are still in process of construction. In this hall will be placed the collections illustrating the archæology and ethnology of the pueblo peoples of the Southwest, the archæological collections from the mounds, and from prehistoric village sites and burial-places, in the central and eastern United States.

DEPARTMENT OF GEOLOGY AND ASSOCIATED DEPARTMENTS.—The Curator's report shows that a large amount of work has been done in this department.

In the geological hall a new method of installation was tried in one of the cases. The general appearance of small dull-colored geological specimens set in white cardboard trays with white labels is not pleasing, and so experiments were begun with the purpose of improving it. In the experimental case prepared during the year by Dr. Hovey, the cardboard trays were dispensed with and the specimens placed on light buff card tablets with the labels of the same color. Black wooden strips served to break up the shelf into agreeable areas. The card tablets were made to exactly cover the shelves. It was then decided to experiment with the French gray color in the adjoining wall and desk cases. In this instance the card tablets used were of uniform size with the ordinary trays, an arrangement which makes them interchangeable and avoids the frequent disarrangement of a large area of specimens.

The two new desk cases of a larger pattern, constructed for the alcoves in the palæontological hall, provided room for an expansion and better display of their contents. This treatment should be adopted in all the alcoves; the old and unsatisfactory cases should be discarded.

Much has been done in the way of labeling in other parts of the collection. Besides the rearrangement of the specimens as stated, 2,435 new labels have been added. Much attention has been

given, during the year, in working over the collections of fossils, obtained in the past by donation, exchange and purchase, but stored for lack of case room.

The cataloguing of the type specimens in this hall has steadily progressed, and it is estimated that the work will extend over the coming two years.

Space has been provided for the expansion of the Mineral collection by the removal of the alcoholic specimens to a case in the vestibule of the fifth floor, where they are stored pending their permanent installation elsewhere.

No important additions have been made to the collection of Gems, with the exception of a very fine pearl and an ounce of Klondike gold nuggets.

The Curator strongly recommends the formation of a collection of month or birth stones, mottoes, regard and other sentimental series, as a popular supplement to the Gem collection. Another series pertaining to religion could be added. These series would illustrate the sentimental use to which gems and gem stones have been put by different nations and religions at different periods of history, and would present a feature of general and educational interest.

A large portion of the collection of Shells has been removed from the central hall to the main hall of the fifth floor. All of the D. Jackson Steward collection was thus removed and placed in five of the upright cases and four desk cases. The collection has been arranged on sloping shelves covered with dark-green cloth. This forms a background of dark color, which throws the varied hues of the shells into stronger relief.

The principal and most notable accession is the Terrell Collection of Fossil Fishes from Ohio, which was very kindly donated by William E. Dodge, Esq.

Three important meteorites and two fine slabs of polished spheroidal granite from Finland were added by purchase. A showy collection of minerals was also purchased with funds donated for the purpose by Miss Matilda W. Bruce, and a collection of characteristic minerals of New York was presented by Mr. Ernest Schnernikow, of this city.

THE DEPARTMENT OF VERTEBRATE ZOÖLOGY has received 1,108 mammals, 3,139 birds, about 1,200 reptiles and 23 fishes. The most important additions have been received from the Jesup and Constable expeditions, and from Colonel Nicolas Pike, who has kindly presented to the Museum his large collection of New York reptiles. We have also received a number of valuable specimens in the flesh from the New York Zoölogical Park and from the Central Park Menagerie. The accessions greatly exceed those of any recent year, and include not only a large amount of material for exhibition, but many mammals from tropical and arctic America wholly new to science. About forty mammals, mostly large specimens, have been added to the exhibition series. These include a number of rare African Antelopes, and also Deer, Peccaries, and other mammals from South America. Six groups for the collection of New York Mammals have been completed and two others remodeled for this collection. There are now fourteen of these groups finished and on exhibition, and work on the others is steadily progressing.

About one hundred birds have been added to the exhibition collection, and also several new bird groups, including as the most notable the large Brown Pelican group. The "Local Collection of Birds," which includes the species found within fifty miles of New York City, has been installed and forms one of the most instructive features of the department. Besides representing nearly all of the birds found in this immediate region, there are special cases devoted to the birds found here at particular seasons, the specimens being changed from month to month in order to show just what birds are present with us at any given season of the year. This arrangement proves very serviceable to local bird students, who thus have only a few specimens to pass in review in their search for any particular species. Considerable material has been gathered for additional bird groups, and several thousand specimens of birds have been received from South America, which furnish many desirable species for mounting.

In the DEPARTMENT OF VERTEBRATE PALÆONTOLOGY, 1899 has been a notable year, especially in the munificent gift of the Cope Collection of North American Fishes, Amphibians and Rep-

MADREPORA PALMATA LAMK:
Collected at Nodda N. D. Daburra Island.



tiles by the President, and of the Cope Collection of Pampean Mammals, by Messrs. Havemeyer, Dodge, James, Iselin, Constable and Osborn. The acquisition of these collections connects the Palæozoic with the Age of Man and the Department of Anthropology.

We greatly regret to record the resignation of Dr. J. L. Wortman, who has served the Department since its inception, with great care, ability and energy. His untiring devotion to the field work, especially in the leadership of all parties to the Rocky Mountain regions between 1890 and 1898 inclusive, is shown in the unrivalled collection now on exhibition in the Tertiary Hall, and also in the rich study series reserved in the Department. The Curator takes great pleasure in acknowledging this splendid service. A special chart placed in the Exhibition Hall, showing the various Museum expeditions in which Dr. Wortman had charge of the field parties, will constitute a permanent record of his services. Dr. Wortman's resignation has led to the promotion of Dr. W. D. Matthew to the First Assistant Curatorship, and to the call of Dr. O. P. Hay from Washington as Second Assistant Curator. The Reptile field work has been placed in the hands of Mr. Walter Granger, and the mammal field work in charge of Mr. J. W. Gidley.

In previous reports the importance of exchanges with foreign museums has been dwelt upon, and it is gratifying to us, that at last this branch of our work is well under way. During the past year we have received valuable collections from the following institutions:

From the Royal Saxon Geological Survey, 29 skeletons of Amphibians.

From the Museum of the Kingdom of Bavaria, Prag, casts of 20 fossil vertebrates.

From the Museum of Natural History, Lyons, casts of 3 and original specimens of 10 species of fossil mammals.

From the Museum of Palæontology, Paris, casts of 5 specimens of fossil mammals. (Second shipment).

From the Museum of the University of Lyons, 47 specimens of fossil mammals. Very valuable and interesting.

From the Royal Bavarian Museum, Munich, casts of 7 specimens of fossil vertebrates.

All of these specimens will be of great value to our Exhibition Hall. In return we have sent out collections which are highly appreciated and will carry the name and work of the Museum abroad.

Steady progress has been made in the Exhibition Hall. The Curator especially calls attention to the mammoth sea lizard skeleton and seven complete limbs and a number of other specimens of Dinosaurs; also to a beautiful slab of rock from Colorado, containing the skulls and skeletons of five fossil mammals, making a rare and beautiful exhibit; also finally to many new smaller installations.

Photography has become of increased importance both in connection with exhibition and publication. We have now developed an almost perfect system of photography. Our field negatives are systematically arranged in large albums, and the negatives duly numbered as the permanent property of the Museum. Enlargements are used in the cases showing the process of discovery and excavation of the specimens in the field, and photographs are used in connection with descriptive labels to illustrate typical specimens in the several departments.

DEPARTMENT OF ENTOMOLOGY.—The Hoffman collection of South American and Indian Butterflies has been placed on exhibition. The Rev. Dr. Hoffman has donated 300 additional specimens during the year.

The Local Collection of Insects has been transferred from the north wing to the gallery of the main building (No. 304). Over 5,000 specimens have been added to the collection, which now contains about 75,000 specimens. About 2,000 more are ready to be added as soon as the species can be identified. As it stands at present, lacking the complete life histories of the insects, the collection leaves much to be desired both from the scientific and educational standpoints. In the east wing (No. 302) about 500 new specimens have been placed on exhibition. The important study collection of Beetles is being assorted and properly arranged. All the collections have been examined and poisoned, to insure

their safety from destructive influences. About 1,000 specimens have been obtained through work in the field. The entomological collections will shortly be installed in more permanent quarters.

LIBRARY.—The librarian reports accessions during the year equal to 1,841 volumes. This is only about a third of what was received last year. The total number of volumes now in the Library is 43,532.

A partial list of the numbers wanted to complete the serial publications of the various geological surveys and scientific societies has been distributed to the State libraries and geological surveys. The results obtained have been very satisfactory.

The work of incorporating the Marcou library with the rest of the library is now well advanced. Besides its great value as a whole, this accession fills many existing gaps in serial publications which we already have.

DEPARTMENT OF PUBLIC INSTRUCTION.—Under the auspices of the State Superintendent of Public Instruction, Prof. A. S. Bickmore, the Curator in charge of this department, has delivered to the teachers of the public schools of the greater city of New York the usual courses of lectures. Professor Bickmore has also given lectures on holidays, as provided in the contract between the Museum and the State Superintendent of Public Instruction, Hon. Charles R. Skinner.

Two courses of four lectures each were delivered by Professor Bickmore to the members of the Museum. The free public lectures given under the auspices of the Board of Education have been attended by crowded audiences. Several hundred persons were unable to gain admission at each lecture. The new lecture hall, now nearing completion, will provide much additional space, and will obviate the discomfort of crowded audiences.

Several other courses of lectures were delivered under the auspices of Columbia University and other institutions. These are noted in the appended list.

*Report of the President.*LECTURES TO THE TEACHERS OF THE PUBLIC SCHOOLS
BY PROF. ALBERT S. BICKMORE.*Spring Course, 1899.*

- Jan. 21, 28.—Newfoundland and Labrador.
 Feb. 4, 11.—Gulf and River of St. Lawrence.
 " 18, 25.—Lakes Ontario and Erie.
 Mar. 4, 11.—Lakes Huron and Superior.
 " 18, 25.—Central California—San Francisco and Yosemite Valley.

Autumn Course, 1899.

- Oct. 14, 21.—The Philippines—Manila and the Tagals.
 " 28, } —The Philippines—The Visayans and Sulus.
 Nov. 4, }
 " 11, 18.—The Hawaiian Islands—Honolulu.
 " 25, } —The Hawaiian Islands—Hawaii.
 Dec. 2, }
 " 9, 16.—Southwestern Alaska and Klondike.

Holiday Course, 1899.

- New Year's Day.—Jamaica and Porto Rico.
 Washington's Birthday.—Russia—St. Petersburg and Moscow.
 Thanksgiving Day.—The Philippines—Luzon and Manila.
 Christmas.—The Philippines—The Visayans and Sulus.

MEMBERSHIP COURSE—PROF. ALBERT S. BICKMORE.

Spring Course.

- Feb. 16.—Newfoundland and Labrador.
 " 23.—Gulf and River of St. Lawrence.
 Mar. 2.—The Great Lakes.
 " 9.—Central California—San Francisco and Yosemite Valley.

Autumn Course.

- Dec. 7.—The Philippines—Manila and the Tagals.
 " 14.—The Philippines—The Visayans and Sulus.
 " 21.—The Hawaiian Islands—Honolulu.
 " 28.—The Hawaiian Islands—Kilauea and Haleakala.

COLUMBIA UNIVERSITY COURSE.

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| Jan. 7.—The Geography and Geology of the Great Lakes..... | } Prof. R. S. Woodward. |
| " 14.—The Geodesy and Hydrography of the Great Lakes..... | |
| " 21.—The Climatology and Commerce of the Great Lakes..... | |
| " 28.—Boiling and Freezing..... | Prof. M. I. Pupin. |
| Feb. 4.—The Transmission of Light in Crystals..... | Prof. Alfred J. Moses. |
| " 11.—The Characters of Minerals in Rock Sections.. | Dr. Lea McL. Luquer. |
| " 18.—The Methods Employed in the Investigation of Minerals, Especially Their Application to the Identification of Species. | |
| " 25.—Testing Minerals..... | Prof. S. L. Penfield. |
| Mar. 4.—The Newer Gold Regions of the West. Cripple Creek, Col.; Mercur, Utah; The Black Hills, S. D.; The Yukon Basin. | Prof. Alfred J. Moses. |
| Mar. 11.—Gold and Silver Mines of Montana..... | Prof. J. F. Kemp. |
| " 18.—Clay and Its Uses..... | Mr. Walter H. Weed. |
| " 25.—The Geology of Petroleum..... | Dr. Heinrich Ries. |
| | Dr. David T. Day. |

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| Dec. 2.—Down the Cañons of the Colorado River with Major Powel, with Geological Observations by the Way.. | } Mr. George Wharton James. |
| " 9.—The Dynamic Geology of the Grand Cañon Region and a Descent from the "Rim" to the River on all the Trails..... | |
| " 16.—The Painted Desert and Its Surroundings. Including the San Francisco Mountains, the Lava Flows of Northern Arizona, the Cañon of the Colorado Chiquito, the Petrified Forest, etc..... | |
| " 23.—The Mesas of Acoma, Zuni and Moki, with Indian Legends of Awatobi, Tai-yo-al-a-ni, Katzimo, Cibolleta and Mount San Mateo..... | |
| " 30.—The Cañons of the Cliff Dwellers, De Chelly, Del Muerto, Colorado Chiquito, Walnut, Havasu and Shinumo..... | |

SATURDAY AFTERNOON COURSE BY THE STAFF OF THE MUSEUM.

- Jan. 7.—An Exploration for Dinosaurs in the Rocky Mountain Plateau Region.....Dr. J. L. Wortman.
- " 14.—A Hunt for Fossil Camels and Horses in Kansas and Colorado.
Dr. W. D. Matthew.
- " 21.—The Bird Rocks of the Gulf of St. Lawrence..Mr. Frank M. Chapman.
- " 28.—Explorations of Zapotecan Tombs of Southern Mexico.
Mr. H. H. Saville.
- Feb. 4.—The Jesup North Pacific Expedition: Archæological Exploration in British Columbia.....Mr. Harlan I. Smith.
- " 11.—The Jesup North Pacific Expedition: The Indian Tribes of the State of Washington.....Dr. L. Farrand.
- " 18.—Rocks of the State of New York as Illustrated in the Museum.
Mr. L. P. Gratacap.
- Mar. 4.—The Squirrels of North America.....Dr. J. A. Allen.
- Feb. 25.—A Collecting Trip in Europe.....Dr. E. O. Hovey.
- Mar. 11.—The Life Histories of Butterflies of the Vicinity of New York.
Mr. Wm. Beutenmüller.
- " 18.—The Hyde Expedition: Exploration of the Ruins of the Pueblo of Bonito, New Mexico.....Mr. George H. Pepper.
- " 25.—Peoples of Asia: The Philippines to Japan..Prof. Albert S. Bickmore.

BOARD OF EDUCATION LECTURES.

- Jan. 10.—Picturesque Sweden.....Mrs. J. H. Gore.
- " 17.—Within the Arctic Circle.....Prof. J. H. Gore.
- " 24.—England.....Mr. Wm. Freeland.
- " 31.—Andreas Hofer and the Tyrol.....Mr. W. D. McCrackan.
- Feb. 7.—The Rhine and the Black Forest.....Prof. H. E. Northrop.
- " 14.—Glimpses of Quaint Old Holland: Its People and Customs.
Mr. Myers R. Jones.
- " 21.—Modern Greece.....Mr. J. P. Leotsakos.
- " 28.—Among the People of the Balkans... Mrs. Emma Paddock Telford.
- Mar. 7.—The National Yellowstone Park.....Mr. John Hutchison.
- " 14.—The Yosemite Valley.....Miss Mary V. Worstell.
- " 21.—Colorado and the Grand Cañon.....Mr. Th. Douglas.
- " 28.—Cuba: Havana and Santiago.....Mr. Walter P. Terry.

Apr.	4.—North Atlantic Ocean : The Bermudas.....	Mr. H. L. Bridgman.
"	11.—The West Indies.....	Mr. George Donaldson.
"	18.—Jamaica and Porto Rico.....	Mr. F. S. Dellenvaugh.
"	25.—Hawaii : Our Pacific Paradise.....	Mr. R. S. Dawson.
Oct.	10.—Porto Rico.....	Miss Anne Rhodes.
"	17.—Naval Gunnery in the Spanish-American War..	Lieut. G. L. Carden.
"	24.—Life in the Philippines..	Mr. Fritze Andreae and Wm. H. Reeves, Jr.
"	31.—Paris and Her Suburbs.....	} Mr. H. E. Northrop.
Nov.	7.—Paris and Her Suburbs.....	
"	14.—La Belle France.....	Mr. R. S. Dawson.
"	21.—Holland.....	Mr. W. E. Griffis.
"	28.—Venice.....	Mr. Jesse L. Hurlbut.
Dec.	5.—Finland.....	Mr. H. Montague Bonner.
"	12.—The Transvaal.....	Dr. John C. Bowker.

THE NEW YORK ZOOLOGICAL SOCIETY.

Jan.	12.—The Zoological Parks of Europe and the New Zoological Park of New York City.....	Prof. Henry F. Osborn.
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THE NEW YORK BOTANICAL GARDEN.

Apr.	13.—The Royal Botanical Gardens at Kew, England.	Prof. Lucien M. Underwood.
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THE LINNÆAN SOCIETY OF NEW YORK CITY.

Jan.	19.—A Naturalist in Florida.....	Mr. Frank M. Chapman.
"	26.—A Naturalist in Labrador.....	Dr. Robert T. Morris.
Feb.	2.—A Naturalist on the Pacific Coast.....	Dr. Bashford Dean.
"	9.—A Naturalist in Wyoming.....	Mr. Ernest Seton Thompson.
Apr.	19. }	Sixth Annual Reception of the New York Academy of Sciences.
"	20. }	
Mar.	23.—Second Annual Meeting of the Audubon Society of the State of New York.	

ATTENDANCE AT LECTURES.

Teachers' Lectures (Saturday, A. M.)—January 21st to December 16th, 1899.....	13,525
Holiday Lectures—January 2d to December 25th, 1899.....	3,391
Saturday Evening Lectures (Columbia University)—January 7th to December 30th, 1899.....	5,371
Botanical Lecture—April 13th, 1899.....	420
Linnæan Society Lectures—January 19th to February 9th, 1899.....	2,658
Membership Lectures—February 16th to December 28, 1899.....	4,991
New York Zoological Society Lecture—January 12th, 1899.....	460
Board of Education Lectures—January 10th to December 12th, 1899..	32,191
Saturday Afternoon Lectures (Curators' Course)—January 7th to March 25th, 1899.....	3,042
	<u>66,049</u>

PUBLICATIONS.—The publications of the Museum issued in the past year greatly exceed those of 1898, and include the following : Vol. XII of the Bulletin, consisting of pages i-xii, 1-342, with 14 plates and 102 text figures ; Part II of Volume XI of the Bulletin, pages 73-188 ; Parts IV and V of Volume I of the Memoirs, pages 167-214, with plates xxi-xxviii, and 26 text figures ; Parts

III and IV of Volume II of the Memoirs, pages 129-392, with plates xiii-xx and 315 text figures; Part I of Volume III of the Memoirs, consisting of 228 pages, with 4 plates, and 291 text figures (still in press, though nearly completed). The list of articles published in 1899, arranged by departments, is as follows:

DEPARTMENT OF INVERTEBRATE PALÆONTOLOGY.

Observations on some "Mud Flow" Markings on Rocks from near Albany, N. Y. By R. P. Whitfield. (Bull. XII, pp. 183-188, 3 text figures.)

Note on a Calcite Group from Bisbee, Arizona. By E. O. Hovey. (Bull. XII, pp. 189-190, pl. viii.)

Notice of two very large Lobsters in the Collection of the American Museum of Natural History. By R. P. Whitfield. (Bull. XII, pp. 191-194, pl. ix.)

Catalogue of the Types and Figured Specimens in the Palæontological Collection of the Geological Department, American Museum of Natural History. By R. P. Whitfield, assisted by E. O. Hovey. (Bull. XI, pp. 73-188.)

DEPARTMENT OF VERTEBRATE ZOOLOGY.

On Mammals from the Northwest Territory, collected by Mr. A. J. Stone. By J. A. Allen. (Bull. XII, pp. 1-10.)

Descriptions of Five New American Rodents. By J. A. Allen. (Bull. XII, pp. 11-18.)

Descriptions of Three New Squirrels from South America. By E. W. Nelson. (Bull. XII, pp. 77-80, 1 text figure.)

Descriptions of Five Apparently New Birds from Venezuela. By Frank M. Chapman. (Bull. XII, pp. 153-156.)

Descriptions of Three New Free-Tailed Bats. By Gerrit S. Miller, Jr. (Bull. XII, pp. 173-181, 3 text figures.)

New Rodents from Colombia and Venezuela. By J. A. Allen. (Bull. XII, pp. 195-218.)

Report on Birds Received through the Peary Expeditions to Greenland. By Frank M. Chapman. (Bull. XII, pp. 219-244, 8 text figures.)

History and Character of the Family Natalidæ. By Gerrit S. Miller, Jr. (Bull. XII, pp. 245-254, pl. x.)

Description of Two New Subspecies of *Colymbus dominicus* Linn. By Frank M. Chapman. (Bull. XII, pp. 255, 256, 1 text figure.)

The Generic Names *Echimys* and *Loncheres*. By J. A. Allen. (Bull. XII, pp. 257-264.)

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

A Provisional Classification of the Fresh-Water Tertiary of the West. By W. D. Matthew. (Bull. XII, pp. 19-76.)

The Ancestry of Certain Members of the Canidæ, the Viverridæ, and Procyonidæ. By J. L. Wortman and W. D. Matthew. (Bull. XII, pp. 109-138.)

Restoration of *Oxyana lupina* Cope, with Descriptions of Certain New Species of Eocene Creodonts. By J. L. Wortman. (Bull. XII, pp. 139-148, 10 text figures.)

Fore and Hind Limbs of Carnivorous and Herbivorous Dinosaurs from the Jurassic of Wyoming. By Henry Fairfield Osborn. (Bull. XII, pp. 161-172, 8 text figures.)

A Complete Mosasaur Skeleton, Oseous and Cartilaginous. By Henry Fairfield Osborn. (Mem. I, Part IV, pp. 165-188, pl. xxi-xxiii, 14 text figures.)

The Skeleton of *Diplodocus*. By Henry Fairfield Osborn. (Mem. I, Part V, pp. 189-214, pl. xxiv-xxviii, 14 text figures.)

DEPARTMENT OF ANTHROPOLOGY.

Description of an Ancient Anomalous Skeleton from the Valley of Mexico ; with Special Reference to Supernumerary and Bicipital Ribs in Man. By Dr. Aleš Hrdlička. (Bull. XII, pages 81-108, pll. i-v, 10 text figures.)

The Eskimo of Smith Sound. By A. L. Kroeber. (Bull. XII, pp. 265-328, pl. xi-xiv, 54 text figures.)

Archæology of Lytton, British Columbia. By Harlan I. Smith. (Mem. II, pp. 129-162, pl. xiii, 117 text figures.)

The Thompson Indians of British Columbia. By James Teit. Edited by Franz Boas. (Mem. II, pp. 163-193, pl. xiv-xx, 198 text figures.)

Symbolism of the Huichol Indians. By Carl Lumholtz. (Mem. III, pp. 1-228, pll. i-iv, 291 text figures.)

DEPARTMENT OF ENTOMOLOGY.

Synopsis of the Species of *Melitia* of America, North of Mexico, with Description of a New Species. By William Beutenmüller. (Bull. XII, pp. 149-152.)

Some Species of North American Lepidoptera. By William Beutenmüller. (Bull. XII, pp. 157-160.)

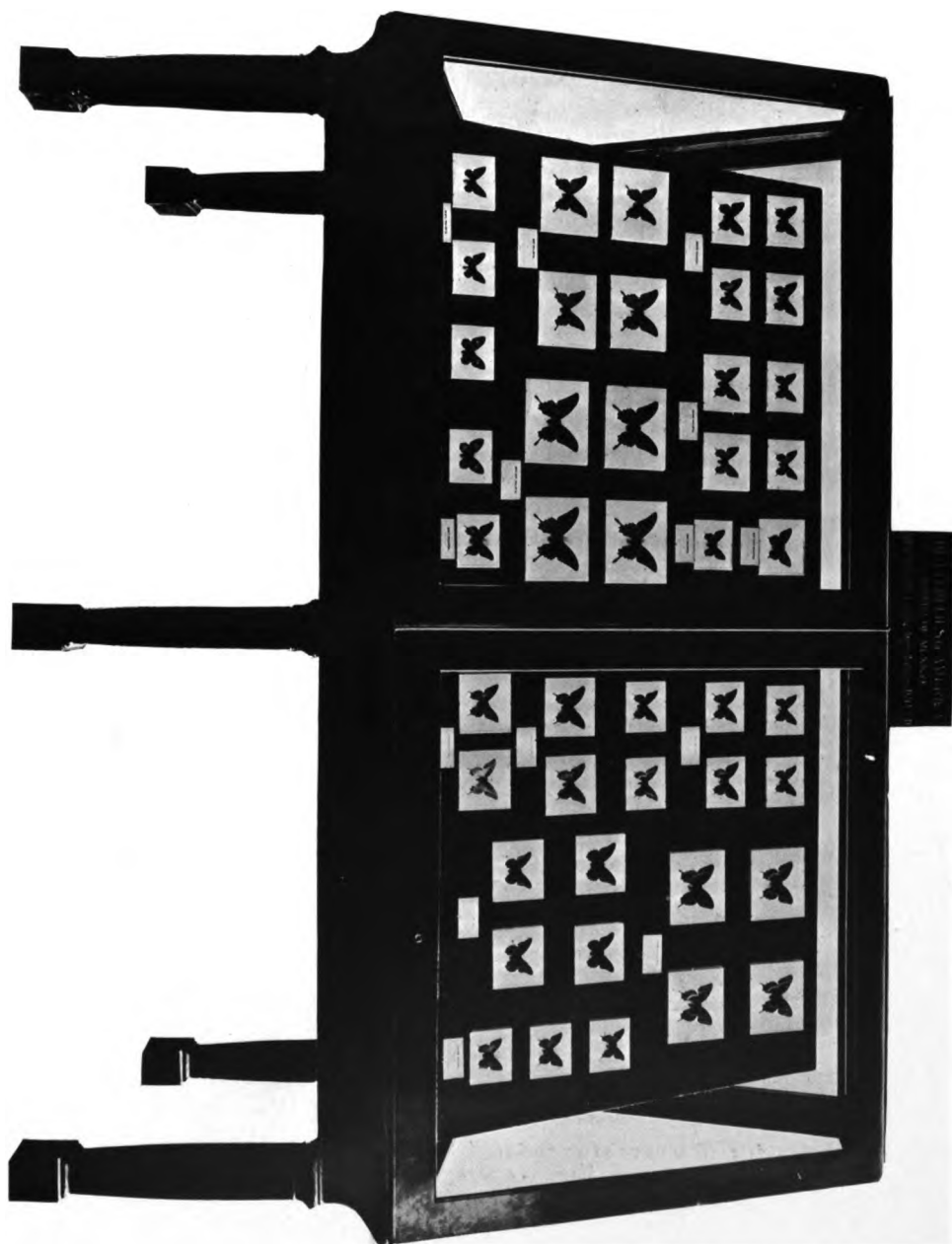
Several papers for the Bulletin and Memoirs are well under way, including a Monograph of the Sesiidæ by Mr. Beutenmüller, with several colored plates, for Volume I of the Memoirs. Owing to lack of funds for the publication of all the material that has been prepared relating to the work of the Museum, several papers have been published in other scientific journals, by permission of the Museum authorities.

Early in the coming year the publication of a periodical, to be called "The American Museum Journal," will be commenced. It will contain short articles relating to the past and present work of the Museum, and is intended to keep the members informed respecting the work carried on in the several departments.

I take pleasure in calling the attention of the members of the Museum to the important results of the various expeditions during the past year. In some instances the work has been supported from the funds of the Museum, but in the main, the cost of field research has been met by private contributions.

A very encouraging beginning has been made in the investigation of some of the Indian tribes of California and the Indian Territory ; an extended reference to which is made in a preceding

SPECIMEN CASE OF HOFFMAN COLLECTION OF BUTTERFLIES



page of this report. The marked success already achieved has prompted the donors to increase their contributions for the coming year; and I am gratified to add that another friend of the Museum has generously subscribed a sum for the extension of the field work among the Indian tribes of Oregon and Washington.

The rapid expansion of our collections more than keeps pace with the recent additions to the building, and it is manifest that the space available for exhibition is already inadequate for the material now on hand. In this connection, it should be remembered that the accessions to the collections from all sources steadily increase with each succeeding year.

We are indebted to the municipal authorities for their cordial coöperation with our efforts to complete the recent extensions of the building; likewise, for an increase of the annual appropriation, as authorized in the law enacted by the Legislature in March last.

I have heretofore dwelt on the necessity for a largely increased Endowment Fund, and I trust that in the near future this much-desired result may be accomplished.

I desire to record an expression of my earnest appreciation of the generous aid and coöperation which I have received from my colleagues.

On behalf of the Trustees I extend their thanks to those members and friends who have aided the Museum during the year by contributions of money or specimens.

To the Curators and their assistants, and others in charge of the several departments, my thanks are due for the praise-worthy manner in which they have carried on the work assigned to them.

MORRIS K. JESUP,

President.

THE AMERICAN MUSEUM OF NATURAL HISTORY

MAINTENANCE.

RECEIPTS.

Department of Parks..... \$95,000 00

Transfer from Endowment Accounts:

To balance deficit of the year 1898..... 11,354 46

To balance deficit of the year 1899..... 22,614 55

\$128,969 01

Examined { ANSON W. HARD, } *Auditing*
and approved, { GEORGE G. HAVEN, } *Committee.*

Correct.—JOSEPH W. EDWARDS, *Auditor, Feb. 8, 1900.*

in account with CHARLES LANIER, TREASURER.

MAINTENANCE.

DISBURSEMENTS.

Cash deficit, January 1, 1899	\$11,354 46
Expressage	490 94
Postage	256 50
Repairs	3,035 70
Coal	6,687 60
Labels	2,978 30
Stationery	612 74
Poison	167 95
Annual Report	231 15
Supplies	6,003 73
Salaries	48,685 69
Fixtures	1,444 98
Labor	44,331 17
General Expense	2,672 22
Interest on Debit Balances	15 88
	<hr/>
	\$128,969 01
	<hr/>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, *Dec. 31, 1899.*

THE AMERICAN MUSEUM OF NATURAL HISTORY

ENDOWMENT.

RECEIPTS.

Cash on hand, Jan. 1, 1899.		\$7,473 56
Freight Rebate.		15 22
Sale of Museum Publications.		124 34
Admission Fees.		1,288 50
Annual Members.		7,520 00
Life Members:		
James B. Ford.	\$100 00	
Morris Loeb.	100 00	
Grenville L. Winthrop.	100 00	
E. Dwight Church.	100 00	
Arthur Ryle.	100 00	
James Speyer.	100 00	
George C. Boldt.	100 00	
Mrs. Catherine L. Olmsted.	100 00	
Wm. L. Flanagan.	100 00	
August Belmont.	100 00	
James H. Hyde.	100 00	
J. Turner Atterbury.	100 00	
Wm. R. Warren, New York State Archæological Explorations.	300 00	
Theodore Cooper.	200 00	
Fellow: Robert S. Brewster.		1,700 00
Patron: Dr. Frederick E. Hyde.		500 00
		1,000 00
Sale of Specimens (Shells).		75 00
Collecting Permits.		36 00
Interest on Invested Funds.		18,423 34
State Superintendent of Public Instruction.		12,000 00
Mexican Expedition Refund.		43 60
J. F. Loubat—Mexican Expedition.		500 00
Henry F. Osborn.		2,000 00
B. T. B. & Frederick E. Hyde, Jr.—Hyde Expedition.		900 00
John B. Trevor Fund:		
Mrs. J. B. Trevor.		10,000 00
Interest.		448 90
Morris K. Jesup:		
Jesup North Pacific Expedition.		11,144 07
“ “ Publications.		2,000 00
“ Expedition to U. S. of Colombia.		3,000 00
“ Collection of North American Forestry.		243 80
Mrs. Morris K. Jesup, North American Indian Research.		1,000 00
C. P. Huntington.		1,000 00
Dr. Frederick E. Hyde—Delaware Valley Explorations.		1,000 00
James M. Constable—Constable Expedition to Northwest Territory.		1,200 00
Kuhn, Loeb & Co.		500 00
Wm. E. Dodge—Terrell Collection of Fossil Fishes.		802 01
For Paapean Collection of South American Fossil Mammals:		
D. Willis James.	\$2,000 00	
H. O. Havemeyer.	2,000 00	
Adrian Iselin.	1,200 00	
Wm. E. Dodge.	2,000 00	
James M. Constable.	1,000 00	
		8,200 00
Trustees' Subscriptions:		
Oswald Ottendorfer.	\$5,000 00	
Joseph H. Choate.	1,000 00	
Charles Lanier.	1,000 00	
Wm. Rockefeller.	5,000 00	
H. O. Havemeyer.	5,000 00	
D. O. Mills.	2,500 00	
Adrian Iselin.	2,000 00	
Anson W. Hard.	1,000 00	
C. Vanderbilt.	10,000 00	
Wm. E. Dodge.	2,500 00	
D. Willis James.	1,000 00	
James M. Constable.	8,750 00	
Morris K. Jesup.	10,000 00	
J. Pierpont Morgan.	10,000 00	
Wm. C. Whitney.	3,500 00	
Archibald Rogers.	250 00	
		68,500 00

\$162,638 34

Examined { ANSON W. HARD, }
and approved. { GEORGE G. HAVEN, } Auditing Committee.
Correct.—JOSEPH W. EDWARDS, Feb. 8, 1900.

ENDOWMENT.

DISBURSEMENTS.

Minerals.....	\$166 49
Labels.....	155 86
Mammals.....	71 99
Library.....	998 33
Mammal Groups.....	145 04
Appleton Sturgis Collection.....	8,295 52
Skeletons.....	300 00
Bird Groups.....	59 98
Geology.....	508 12
Postage.....	201 69
Traveling Expenses.....	63 70
Conchology.....	11 50
Peruvian Expedition.....	4,033 16
Annual Report.....	322 18
Stationery.....	126 35
Edwards Entomological Collection.....	790 00
Entomology.....	80 96
Spang Collection.....	2,073 33
Haines Collection.....	6,950 00
General Expenses.....	878 72
Special Loan No. 1.....	15,000 00
Interest " " ".....	323 00
Special Loan No. 2.....	18,000 00
Interest " " ".....	804 00
Marine Invertebrate Zoölogy.....	78 45
Interest on Debit Balances.....	98 90
Printing.....	263 90
Anthropology.....	4,374 37
Jesup North Pacific Expedition.....	11,144 07
Ethnic Groups.....	698 64
Vertebrate Palæontology.....	5,043 42
Department of Public Instruction.....	9,662 61
Constable Expedition to Northwest Territory.....	1,200 00
John B. Trevor Fund Investment.....	10,536 11
Vertebrate Zoölogy.....	610 38
Jesup Expedition to U. S. of Colombia.....	3,000 00
" North Pacific Expedition—Publications.....	1,807 36
" Collection of North American Forestry.....	267 12
North American Indian Research.....	1,915 05
Bulletins.....	5,414 96
N. Y. State Archæological Explorations.....	505 27
Collection of Pampean South American Fossil Mammals.....	200 00
Terrell Collection of Fossil Fishes.....	802 01
Mexican Expedition.....	1,005 50
Transfer to Maintenance Accounts:	
To balance deficit for the year 1898.....	\$11,354 46
" " " " " " " " 1899.....	22,614 55
Cash on hand, December 31, 1899.....	9,681 29
	<u>\$162,638 34</u>

CHARLES LANIER, *Treasurer.*

[E. & O. E.]

NEW YORK, Dec. 31, 1899.

CHAPTER 126.

AN ACT to authorize further appropriations for the maintenance of the American Museum of Natural History in the city of New York.

Accepted by the city.

Became a law March 23, 1899, with the approval of the Governor. Passed, three-fifths being present.

The People of the State of New York, represented in Senate and Assembly, do enact as follows :

SECTION 1. The board of estimate and apportionment, upon the requisition of the department of parks, is hereby authorized to include annually in its final estimate of the amounts required to pay the expense of conducting the public business of the city of New York, in addition to the sum or sums now provided by law by the terms of chapter three hundred and seventy-eight of the laws of eighteen hundred and ninety-seven for the maintenance of the American Museum of Natural History, such further sums not exceeding forty thousand dollars as the said board of estimate and apportionment may appropriate.

§ 2. This act shall take effect immediately.



ESKIMO MAN FROM THE WEST COAST OF HUDSON BAY



ESKIMO WOMAN FROM THE WEST COAST OF HUDSON BAY

	Volumes	Parts and Numbers	Pamphlets.
Iowa State Horticultural Society, Des Moines.....	11		
“ “ University, Iowa City.....		2	
Kansas Academy of Science, Topeka.....	1		
Kentucky Agricultural Experiment Station, Frankfort.....		2	
Maryland “ College, College Park.....		2	
“ “ Experiment Station, College Park.....	1		1
“ State Weather Service, Baltimore.....	1		
Boston Book Co., Mass.....		1	
Library Bulletin Co., Boston, Mass.....		3	
Massachusetts Horticultural Society, Boston.....		4	1
New England Zoölogical Club, Cambridge, Mass.....		3	
City Library Association, Springfield, Mass.....	1	5	1
Wellesley College, Wellesley, Mass.....	1		
Journal American Folk-Lore, Boston, Mass.....			1
Museum of Art, Detroit, Michigan.....	1		
Michigan Ornithological Club, Grand Rapids.....		5	
“ Bureau of Labor and Industrial Statistics, Lansing....	1		
“ State Horticultural Society, Lansing.....		3	
“ “ Treasurer, Lansing.....	1		
University of Minnesota Agricultural Experiment Station, St. Anthony's Park.....	1	1	
Washington University, St. Louis, Mo.....	1		
Helena Public Library, Montana.....		2	1
Nevada State University, Reno.....	2	5	
Geological Survey of Newfoundland.....	1		
New Jersey Free Public Library, Newark.....		4	
Bureau of Statistics and Labor, State N. Y., Albany.....		3	
New York State Department of Agriculture, Albany.....	2		
Institute of Arts and Sciences, Brooklyn, N. Y.....	4		
Medical Society of County of Kings, Borough of Brooklyn, N. Y.	1		
Grosvenor Free Public Library, Buffalo, N. Y.....	1	1	
Hamilton College, Clinton, N. Y.....	1		
New York State Reformatory, Elmira.....	1		
Farmers' Institute Bulletin Publisher, Fayetteville, N. Y.....		1	
New York Agricultural Experiment Station, Geneva, N. Y.....		16	
Lake Mohonk Conference International Arbitration, N. Y.....	1		
American National Red Cross Relief Committee, New York City.	1		
“ Society for the Prevention of Cruelty to Animals, New York City.....		14	
Arctic Club of America, New York City.....			1
Art Collector, New York City.....		4	
Camera Club, New York City.....	1		
Chicago and North Western Railway Co., New York City.....	1		
City Charity Organization, New York City.....		30	
Cooper Union, New York City.....	1		
Directors N. Y. Juvenile Asylum, New York City.....	1		
International Navigation Co., New York City.....	1		
Monumental Records Association, New York City.....		3	
National Academy of Design, New York City.....	1		
New York Association for Improvement of Poor, New York City.	1		
“ “ Entomological Society, New York City.....	1		
“ “ Post-Graduate Medical School, New York City.....		11	

	Volumes	Parts and Numbers	Pamph-lets
Société D'Émulation De L'Ain, Bourg, France.....		1	
“ des Sciences Naturelles du Saone-et-Loire, Chalon-Sur Saone, France.....		4	
Société des Sciences Médicales de Gannat, Commentry, France “ D'Horticulture et Viticulture de la Cote-D'or, Dijon, France.....		12	
Société des Ingénieurs, sortis de l'école prov. d'Ind, etc., Hain- aut, France.....		7	
Société de Médecine et de Pharmacie, Limoges, France.....		1	1
“ D'Horticulture et de Botanique du Centre de la Nor- mandie, Lisieux, France.....		1	
Association pour L'ens. des Sciences Anthropologiques, Paris, France.....		1	
Ministère du Commerce de L'Industrie, des Postes et des Tele- graphes, Paris, France.....		1	2
Königliche Friedrich-Wilhelms-Universität, Berlin, Germany... “ Museen zu Berlin, Germany.....	1	2 1	
Seventh Internationaler Geographen-Kongress, Berlin, Germany. Zoologische Sammlung zu Berlin.....			3 2
Niederrheinische Gesellschaft für Natur-und Heilkunde, Bonn, Germany.....		2	
Königliches Zoologisches und Anthropologisch-Ethnologisches Museum, Dresden, Germany.....	1		
Naturwissenschaftliche Gesellschaft “ Isis” in Dresden, Ger- many.....		1	
Hamburgische Wissenschaft-Anstalten, Hamburg, Germany... Verein für Kunde der Natur und der Kunst, Hildesheim, Ger- many.....		5	
Commerce Special de la Grèce avec les Pays Étrangers, Athènes, Greece.....	1		
Ministère Des Finances, Bureau de Statistique, Athènes, Greece. Agricultural and Horticultural Society of India, Calcutta.....		15 14	
Botanical Survey of India, Calcutta.....		1	1
Government of India, Calcutta.....		3	
“ “ “ “ 4 Maps.....	24	82	20
Belfast Natural History and Philosophical Society, Ireland....	1		
Agricultural Statistics of Ireland, Dublin.....			1
R. Scuola Enologica Di Avelling, Padova, Italy.....	1		
R. Università Di Pavia, Italy.....		3	
Direccion General de Estadística, Mexico.....			3
Instituto Medico Nacional, Mexico.....		7	
“ Cientifico y Literario d. Estado de Mexico, Toluca... Instruccion Pública Mexicana, Mexico.....		4 11	
Public Museum, Wanganni, New Zealand.....	1		
Printing and Stationery Department, Wellington, New Zealand. Register-Generals Office, Wellington, New Zealand.....	1 1		
Det Statistiske Centralbureau, Kristiania, Norway.....		1	
Sociedade Broteriana, Coimbra, Portugal.....		2	
Direcção dos Trabalhos Geologicos de Portugal, Lisboa.....	3		
Imperial Russian Geographical Society, St. Petersburg, Russia. Bernice Pauahi Bishop Museum, Honolulu, Sandwich Islands..	1 2		1
Department of Foreign Affairs, “ “ “ “ ..	1		

	Volumes	Parts and Numbers	Pamphlets
Paradise of the Pacific, Honolulu, Sandwich Islands.....		6	
Republic-of-Hawaii, " ".....			1
Edinburgh Geological Society, Scotland.....	1		
" University, Scotland.....	1		
Direccion Generale de Statistique, Buenos Aires, South America.		1	
Sociedad Cientifica Argentina, Buenos Aires, South America....		8	
Museo de Historia Natural de Valparaiso, Chili, South America.		2	
Direccion de Estadistica General, Montevideo, Uruguay, South America	1	2	
Sociedad Geográfica de Madrid, Madrid, Spain.....		1	
Vestergren Von Tycho, Upsala, Sweden.....		3	
Universität Basel, Switzerland.....			2
Facultad de Ciencias de la Universidad y Naturales de la Habana, Cuba, W. I.			1
Real Academia de Ciencias Medicas, Fisicas y Nat. d. I. Habana, W. I.		15	

Mrs. ROBERT WOODWORTH, New York City.
 Bust of Milton, by Paul Akers—with pedestal.

EXCHANGES.

	Volumes	Parts and Numbers	Pamphlets
Alabama. Geological Survey of Alabama, Montgomery.....	1		
California. University of California, Berkeley.....		1	1
Library, Leland Stanford Jr. University, Palo Alto.....		4	2
Dr. Lorenzo G. Yates, Sacramento.....	1		2
C. R. Orcutt, San Diego		1	
California Academy of Sciences, San Francisco.....	1	11	
Cooper Ornithological Club, Santa Clara.....		5	
Santa Clara College.....	1		
Colorado. Scientific Society, Denver.....		2	2
University of Denver.....			1
Connecticut. State Board of Agriculture, Hartford.....	1		
Connecticut Academy of Arts and Sciences, New Haven....		1	
C. E. Beecher, New Haven.....	1		
Georgia. Geological Survey, Atlanta.....	2		
Illinois. Chicago Academy of Sciences.....	1	1	
Field Columbian Museum, Chicago.....	1	13	
John Crerar Library, Chicago.....	24		
State Laboratory of Natural History, Urbana.....	2		
Indiana. Geological Survey, Indianapolis.....	1		
Iowa. Academy of Sciences, Des Moines.....	1		
Geological Survey, Des Moines	1		
Historical Society of Iowa, Des Moines.....		2	
" Department of Iowa, Iowa City.....		2	
State Historical Society, Iowa City.....		3	
University of Iowa, Iowa City.....	1		
Kansas. University, Lawrence.....	2	4	
State Board of Agriculture, Topeka.....	3		
" Historical Society.....	1		
Kentucky. Agricultural Experiment Station, Louisville.....	1	3	
Louisiana. Tulane University, New Orleans.....	1		
Maine. University Library, Orono.....	2		
Maryland. Geological Survey, Baltimore.....	2		
Johns Hopkins University,		2	
Agricultural Experiment Station, College Park.....		6	
Massachusetts. Agricultural College, Amherst.....	5	7	
American Academy of Arts and Sciences, Boston.....		22	
Appalachian Mountain Club, Boston.....	1	1	
Boston Public Library.....	2	12	
" Society of Natural History.....		14	
State Board of Agriculture, Boston.....	1		
" Library, Boston.....	3		
Harvard College Astronomical Observatory, Cambridge....	1	1	
Museum of Comparative Zoölogy, Cambridge.....	2	11	
Peabody Museum of American Archæology and Ethnology, Cambridge.....	1		1
Bussey Institution, Jamaica Plain.....		1	

	Volumes	Pamphlets	Parts and Numbers
Massachusetts—Continued.			
Essex Institute, Salem.....	2	6	
E. S. Morse, ".....			1
City Library Association, Springfield.....	1	1	1
Newberry Library, Springfield.....		1	
Worcester Society of Antiquity.....	1		
Michigan. State Agricultural College Experiment Station, Agricultural College.....		19	
State Board of Agriculture, Agricultural College.....	1		
Minnesota. Geological and Natural History Survey, St. Paul..	2		
Historical Society, St. Paul.....		1	
University Minnesota State Agricultural Experiment Station, Minneapolis.....	1		
Missouri. University of the State, Columbia.....	1		
Missouri Geological Survey, Jefferson City.....	3	1	
" " " " " Atlas.....			
St. Louis Academy of Science, Missouri.....	1	10	
Missouri Botanical Garden, St. Louis.....	1		
Public Library, St. Louis.....		2	
Nebraska. State Historical Society, Lincoln.....	1		
University, Lincoln.....	1		
New Jersey. Agricultural College Experiment Station, New Brunswick.....		9	
Geological Survey, Trenton.....	2		
Historical Society, Paterson.....		1	
New York. State Geological Survey, Albany.....	1		
University of State, Albany.....	10	24	
F. H. Lattin, Albion..		11	
Museum Publishing Company, Albion.....		8	
Buffalo Society of Natural History.....		3	
New York Agricultural Experiment Station, Geneva.....		18	
Cornell University, Ithaca.....	17	18	
Geological Society of America, Rochester.....	1		
Charles S. Prosser, Schenectady.....			1
L. I. Historical Society, Brooklyn.....	1		
Natural Science Association, New Brighton, Staten Island.		6	
American Chemical Society, New York City.....	1		
American Geographical Society, New York City.....		5	
" Institute of Mining Engineers, New York City..	2		82
" Numismatic and Archaeological Society, New York City.....		1	
Archaeological Institute of America, New York City.....		8	
Columbia University, New York City.....	2	3	
Lemcke and Buechner, " " ".....	1		3
Linnæan Society, New York City.....		2	
Mercantile Library, " " ".....		2	
Metropolitan Museum of Art, New York City.....		1	
New York Academy of Sciences, New York City.....	1	2	
" " Botanical Garden, New York City.....		2	
" " Public Library, " " ".....	1	7	
" " Zoölogical Society, " " ".....		2	
Torrey Botanical Club, New York City.....	1		1

	Volumes	Pars and Numbers	Pamph- lets
<i>New York—Continued.</i>			
G. P. Putnam's Sons, New York City.....	17		
Charles Scribner's Sons, " " ".....	4		
Gustav E. Stechert, " " ".....	4		
North Carolina. H. H. and C. S. Brimley, Raleigh.....		23	
N. C. Geological Survey, Raleigh.....	1		
E. Mitchell Scientific Society, Raleigh.....		3	
Ohio. Agricultural Experiment Station, Columbus.....		13	
State Library, Columbus.....	16		
Denison University, Granville.....		5	
Oberlin College.....		2	
Pennsylvania. Benjamin S. Lyman, Philadelphia.....			1
Academy of Natural Sciences, ".....	1	3	
American Philosophical Society, ".....		2	
Geographical Club of Philadelphia.....		1	1
University of Pennsylvania, Philadelphia.....	1	2	
Wagner Free Institute of Science, Philadelphia.....	1		
Zoölogical Society of Philadelphia.....	1		
University of Wyoming, Laramie.....		1	
Wyoming Historical and Geological Society, Wilkesbarre..	1		
Rhode Island. Redwood Library and Athenæum, Newport....	1		
Brown University, Providence.....	1		
Texas. Academy of Science, Austin.....	1		
Vermont. Fletcher Free Library, Burlington.....			1
University of Vermont and State Agricultural College, Bur- lington.....	1	5	
Middlebury College.....	1		
State Board of Agriculture, Montpelier.....	1	4	
Virginia. Dr. Edgar A. Mearns, Fort Myer.....		7	16
Washington, D. C. G. K. Gilbert.....			4
I. C. Russell.....	1		
C. D. Walcott.....			11
Department of Agriculture.....	41	371	17
" " Interior..... 246 maps.			
" " ".....	24		
" " State.....	17		
National Academy of Sciences.....	2		
Smithsonian Institution.....	14	2	4
Superintendent of Documents.....		10	12
Treasury Department.....	2		
War Department.....	11		
Wisconsin. State Historical Society, Madison.....	1		
Public Museum, Milwaukee.....	1		
Canada. Le Naturaliste Canadien, Chicoutimi.....		17	
Fruit Growers' Association, Grimsby.....	1		
Nova Scotia Institute of Natural Science, Halifax.....	1		
Entomological Society of Ontario, London.....	2	4	
Natural History Society of Montreal.....		1	
Numismatic and Antiquarian Society of Montreal.....		1	
Geological and Natural History Survey of Canada, Ottawa..	5		2
Ottawa Field Naturalists' Club.....		12	
Royal Society of Canada, Ottawa.....	1		

	Volumes	Parts and Numbers	Pamphlets
<i>Canada—Continued.</i>			
New Brunswick Natural History Society, St. John.....		1	
Canadian Institute, Toronto.....		2	
University of Toronto, Ontario.....	4	1	
Manitoba Historical and Scientific Society, Winnipeg.....	1	2	
Costa Rica. Museo Nacional, San José.....		1	
Mexico. Biblioteca de la Secretario de Fomento, Mexico.....	5	7	
Sociedad Científica "Antonio Alzate," Mexico.....		9	
" Mexicana d'Histoire Natural, ".....		2	
West Indies. Institute of Jamaica, Kingston.....		1	
Agricultural Society, Trinidad, Port-of-Spain.....		9	
South America. Instituto Geográfico Argentino, Buenos-Aires.	2	6	
Museo Nacional de Buenos-Aires.....	1	3	2
Bibliotheca Nacional, Rio de Janeiro, Brazil.....	10	2	2
Direccion General de Estadística, La Plata.....	5	1	3
Société Scientifique du Chili, Santiago.....		2	
La Universidad, Santiago, Chili.....		10	
Museo Nacional de Montevideo, Uruguay.....		2	
Republica Oriental del Uruguay, Montevideo.....	1		
Museu Paraense de Historia Natural e Ethnographia, Para.		7	
Commissão Geographica e Geologico, S. Paulo.....	9		
Museu Paulista, S. Paulo.....	2		
Africa. Académie d'Hippone-Société de Recherche Scientifique			
et d'Acclimatation, Bône.....			1
Colonial Secretary's Office, Cape Town.....	1		
Department of Agriculture, " ".....		20	
South African Museum, " ".....	1	2	
Société Archéologique de Constantine.....	1		
Institut de Carthage, Tunis.....		2	
" Egyptian, Le Caire.....		3	
Asia. Royal Asiatic Society (Bombay Branch).....		1	
Asiatic Society of Bengal, Calcutta, India.....		15	
Indian Museum, Calcutta, India.....	4	1	
Madras Government Museum, India.....		1	
Agricultural and Commercial Department, Tokio, Japan....	1		
Imperial University, Tokio, Japan.....	1	1	1
Koninklijke Natuurkundige Vereeniging in Ned-Indië, Bat-			
avia, Java.....	1		
Australasia. Public Library Museum and Art Gallery, Adelaide.	24	13	1
Royal Geographical Society, Adelaide.....	1		
Australian Museum, Sydney.....	3	4	
Department of Mines and Agriculture, Sydney.....	4	1	
Geological Survey, New South Wales, ".....		2	
Legislative Assembly, Sydney.....	1		
Government Statistician's Office, Sydney.....	4		1
Linnean Society of New South Wales, Sydney.....		3	1
Royal " " " " ".....	1	1	
Rev. W. Colenso, Wellington.....	1		
New Zealand Department of Agriculture, Wellington.....		5	2
Geological Survey of Queensland, Brisbane..... 12 maps.		9	
Royal Society of Queensland, Brisbane.....	1		
Minister of Mines, Tasmania, ".....		1	



	Volumes	Parts and Numbers	Pamphlets
<i>Australasia—Continued.</i>			
Royal Society of Victoria, Melbourne.....		I	
Geographical Society, ".....7 maps.	2		
Victoria Zoölogical and Acclimatization Society, Melbourne.	I		
Field Naturalists' Club, Victoria.....	10	21	
Geological Survey Western Australia, Perth.....3 maps.	I	2	
Austria-Hungary. Südslavische Akademie der Wiss. und Künste,			
Agram.....		3	
Vorarlberger Museum Verein, Bregenz.....	I		
K. Magyarhoni Földtani Tarsulat, Budapest.....		2	
Magyar Nemzeti Museum, Budapest.....		2	
R. Società Agraria di Gorizia.....		2	
Verein f. Siebenbürgische Landeskunde, Hermanstadt.....	I	I	
Société de Médecine, Science et d'Hygiène, Kharkow.....	I		
L'Académie des Sciences de Cracovie, Poland.....		7	
K. Böhm. Gesellschaft d. Wissenschaften, Prag.....	8		
Verein f. Geschichte d. Deutschen in Böhmen, Prag.....		4	
K. K. Ackerbau-Ministerium, Vienna.....	2	I	
K. K. Gartenbau-Gesellschaft, ".....		12	
K. K. Geologische Reichsanstalt, ".....		11	
K. K. Gradmessungs-Bureau, ".....	I		
K. K. Naturhistorisches Hof-Museum, Vienna.....		3	
K. K. Zoologisch-Botanische Gesellschaft, Vienna.....		10	
Section f. Naturkunde d. Öster. Tourist-Club, Vienna.....	I		
Verein zur Verbreitung naturwissenschaft. Kenntnisse,			
Vienna.....	I		
Belgium. Académie Royale des Sciences, des Lettres et des			
Beaux-Arts de Belgique, Brussels.....	5		
Dr. Alph. Dubois, Brussels.....			I
Musée du Congo, ".....	2	10	
Société Royale de Botanique d. Belgique, Brussels.....	I		
" " Linn. d. Bruxelles.....		8	
" " Malacologique d. Belgique, Brussels.		3	
" Geologique de Belgique, Liège.....		5	
" des Ingenieurs, etc., du Hainaut, Liège.....	I	I	
" Royale des Sciences, Liège.....	I		
" Scientifique de Bruxelles, Louvain.....	3		
L'École Provinciale d'Industrie et des Mines du Hainaut,			
Morlanwels.....		I	
Denmark. Kongelige Danske Videnskabernes Selskab, Copen-			
hagen.....	I	8	
France. Société Linneenne du Nord de la France, Amiens ...	24		
Société Académique d'Archæologie, Science et Arts du Dé-			
partment d. L'Oise, Beauvais.....	I		
Société d'Horticulture de la Gironde, Bordeaux.....		3	
" des Études, Literature Scientifique et Artistique du			
Lot, Cahors.....		3	
Union Géographique du Nord d. l. France, Douai.....		2	
Société d'Horticulture de Fontenay-Le-Comte.....		7	
" des Sciences Naturelles et Archéologie de la Creuse,			
Guéret.....	I		
L'Université, Laval.....	I		I

	Volumes	Parts and Numbers	Pamphlets
<i>England—Continued.</i>			
Philosophical Society, Cambridge.....		3	
Naturalists' Society, Cardiff.....	1		
Cotteswold Naturalists' Field Club, Gloucester.....		3	
Natural History Society, Hertfordshire.....		4	
Yorkshire Geological and Polytechnic Society, Leeds.....	1		
Board of Agriculture, London.....		7	
British Museum (Natural History), London.....	5	1	
Geologists' Association, London.....		3	
Geological Society of London.....	1		
Linnean " " ".....		4	
Royal Colonial Institute, ".....		6	
" Society, London.....		16	
Wesley and Son, London.....	5		
Zoological Society, ".....	1	5	1
Field Nat. and Archæologists' Society, Manchester.....	1		
Geographical Society, Manchester.....		15	
Geological ".....		9	
Museum, Owens College, ".....	1	3	1
Literary and Philosophical Society, Manchester.....		6	
Marine Biological Association, United Kingdom, Plymouth.....		2	
Zoological Museum, Tring.....		3	
Scotland. Botanical Society of Edinburgh.....		3	
W. E. Clarke, Edinburgh.....	1		
Museum of Science and Art, Edinburgh.....	1		
Natural History Society, Glasgow.....	1	5	
Perthshire Society of Natural Science, Perth.....		1	
Italy. R. Istituto Lombardo di Scienze e Lettere, Milano....	1	1	
R. Accademia di Science, Lettere ed Arti in Rovoreto, Modena.....		3	
R. Scuola Pratica di Agricoltura, Modena.....			2
" " Superiore d'Agricoltura di Portici, Padova.....	6		
" Istituto Botanico di Palermo.....		3	
" Orto Botanico di Palermo.....		2	
Società dei Naturalisti Siciliani, Palermo.....		5	
" Toscana di Scienze Naturali, Pisa.....	1	1	
R. Accademia dei Lincei, Roma.....	2	33	
" Comitato Geologico d'Italia, Roma.....		1	
Ministero d'Agricoltura, Industria e Commercio, Roma....		3	
Musei di Zoologia ed Anatomia, Torino.....		18	
Netherlands. Société Hollandaise des Sciences, Haarlem.....		3	
Norway. Departementet for det Indre, Christiania.....	1		1
Videnskabernes Selskab i Christiania.....	3		12
Museum, Stavanger.....	1		
Russia. Naturforschende Gesellschaft bei der Universität, Dorpat.....		1	
Commission Géologique de la Finlande, Helsingfors.....	1	1	
Société des Sciences de Finlande, Helsingfors.....	2		
" Imperiale des Naturalistes, Moscow.....		1	
Comité Géologique de la Russie, St. Petersburg.....	2	2	
L'Académie Impériale des Sciences, St. Petersburg.....		5	
Sweden. Bureau of Geological Survey, Stockholm.....		10	
Institut Royal Geologique de Suède, ".....I map.			

	Volumes	Parts and Numbers	Pamph- lets
Sweden— <i>Continued.</i>			
Kongl. Vitterhets Histoire och Antiquitets Akademien, Stockholm.	1	1	
Royal Swedish Academy of Sciences, Stockholm.	1	9	
Société Entomologique, Stockholm.		4	
Kongliga Universitetet Bibliotheket, Upsala.	2	3	4
Switzerland. Société Vaudoise des Sciences Naturelles, Lausanne.		2	
Lund Universitatis Lundensis, Lund.	1		
Société Neuchateloise de Géographie, Neuchatel.	1		
Schweizer Entomologische Gesellschaft, Schaffhausen.		1	
St. Gallische Naturwissenschaftliche Gesellschaft, St. Gall.	1		

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DEPARTMENT OF GEOLOGY AND MINERALOGY.

PALÆONTOLOGY AND GEOLOGY.

BY DONATION.

- J. J. CROOKE, Staten Island, N. Y.
A large number of fossils from various localities.
- W. E. DODGE, New York City.
A collection of Devonian Fish remains from the Portage Group at Sheffield, O.
- G. K. HOLLISTER.
Concretion of bituminous limestone from Rocky Mts., N. W. Ter., Canada.
- J. S. MERIAM, New York City.
1 specimen of an *Ichthyosaurus* eye from Lias, England.
1 " " *Ophioderma* from Lias, England.
1 " " *Dapedion* " " "
- PEARY ARCTIC CLUB OF NEW YORK.
12 Fossils from Cape Harrison, Princess Marie Bay and Summit, Cape d'Urville, Northern regions.
- W. WALLACE, New York City.
Specimen of *Zaphrentis gigantea*, Ed. & H. from Lawyersville Schoharie County, N. Y.

BY PURCHASE.

About 100 specimens of the rocks of the Yellowstone National Park.

MINERALOGY.

BY DONATION.

- THE BLACK HILLS WIND CAVE CO., Wind Cave, South Dakota.
1 Large specimen of the "boxwork" Calcite formation from Wind Cave.
- LAZARD CAHN, New York City.
2 Specimens of Calcite from Cumberland, England.
1 " " Barite " "
- C. C. DICKINSON, New York City.
1 Specimen of Itacolumite from Delhi, India.
- A. S. EAKLE, Cambridge, Mass.
1 Specimen of Erionite from Durkee, Oregon.
- E. C. ECKEL, New York City.
3 Specimens of Tremolite from Fort George, New York City.
- S. C. HAYDEN, New York City.
2 Specimens of Thomsonite from Grand Marais, Mich.

- A. E. HEIGHWAY, New York City.
 1 Specimen of crystal Rutile from Clay County, N. C.
 1 " " massive " " Va.
 1 " " " " Corundum.
 2 " " " " Chromite.
- GUSTAV E. KISSEL, New York City.
 1 Specimen of Aerolite from Ness County, Kansas.
- J. A. MANLEY, New Brunswick, N. J.
 Groups of spear-head Marcasite from Sayersville, N. J.
- J. MOORE, Richmond, Ind.
 One-half of a Meteorite (Pallasite) from Haviland, Kansas.
- N. B. POWTER, New York City.
 15 Specimens of Phosphate from Cumberland Bay, Pa.
 5 " " " " Florida.
 2 " " " " W. Va.
 1 " " " " Aruba Island, Caribbean Sea.
- M. H. SAVILLE, New York City.
 1 Specimen of Opal from Queretaro, Mexico.
- ERNEST SCHERNIKOW, New York City.
 Nearly 100 specimens of minerals from New York State.
- A. W. TROTTER, New York City.
 1 Specimen of Corundum from Rockingham, Canada.
- PROF. R. P. WHITFIELD, New York City.
 11 Crystals of Struvite from Hamburg.
 1 Specimen of Forcherite from Knittelfeld, Styria.

BY EXCHANGE.

- 1 Specimen of twinned Quartz from Japan.
 1 " " crystallized Barite from Cumberland, England.
 1 " " " " Platinum from South America.
 1 " " " " Oregon.
 1 " " " " Colorado.
 1 " " " " California.
 1 " " " " Russia.
 1 " " crystallized Orpiment from Mercur, Utah.
 1 " " Vesuvianite from Montana.
 1 " " Asbestos from New Brunswick, N. J.
 1 " " Barite from near Cumberland, England.
 1 " " Anhydrite from Bleiberg, Carinthia.
 1 " " Enargite from Red Mt., Col.
 1 " " Domeykite from Houghton, Mich.
 1 " " Parisite from Montana.
 1 " " Dickinsonite from Branchville, Conn.
 1 " " Sphalerite from Cumberland, England.
 1 " " Hardystonite from Franklin, N. J.
 1 " " Limonite from Brazil.
 1 " " Martite from Utah.
 1 " " Topaz " "
 1 " " Chalcedony from Tampa, Florida.
 1 " " Oerstedite (Zircon) from Chesterfield, Mass.
 1 " " Manganite from Negaunee, Mich.
 1 " " Wire Silver and Cerussite from Idaho.
 3 " " Cerussite from Joplin, Mo.
 3 Stalactites of Marcasite from Galena, Ill.

Core of corroded Calcite within shell of Smithsonite from Mineral Point, Wis.
 3 Specimens of Smithsonite from Mineral Point, Wis.
 Black sand (Magnetite and Ilmenite) from New Brunswick, N. J.
 Microscopic Pyrite crystals from South River, N. J.
 Pyrite sand from Sayersville, N. J.

BY PURCHASE.

Specimen of Calcite Pseudomorph after Aragonite from Cianciana, Sicily.
 " " Smithsonite from Laurium, Greece.
 " " twin crystal Gypsum from Girgenti, Sicily.
 2 Large slabs of Spheroidal Granite from Kangasniemi, Finland.
 Etched section of a Meteorite from Mornington Victoria, Australia.
 " " " (Siderite) from Roebourne near Hammersley
 Range, Queensland, Australia.
 15 Small nuggets of gold from the Klondike.
 Pearl from a *Venus mercenaria* L., from East River, New York.
 10 Specimens of the various forms of calcareous incrustation from Wind Cave,
 South Dakota.
 10 Specimens of spodumene, tin ore, etc., from the Etta tin mine and elsewhere
 in the Black Hills of South Dakota.

CONCHOLOGY.

BY DONATION.

J. J. CROOKE, Staten Island, N. Y.
 A large number of shells from various localities.
 A. E. DOUGLAS, New York City.
 A number of *Marginella conoidalis* Kien, from Mosquito Inlet, Fla.
 MRS. H. G. HOLMES, New York City.
 1 Large specimen of *Cardium lima* Lm., from East Coast of Africa.
 F. C. NICHOLAS, New York City.
 10 Specimens of *Nerita cassiculum* Swb., from Rio Polomino, Col-
 ombia.
 NICHOLAS PIKE, New York City.
 A miscellaneous collection of shells from various localities.

MARINE INVERTEBRATES.

BY DONATION.

MRS. F. B. ARNOLD, 101 West 78th St., New York City.
 2 Specimens of *Astrophyton* from Eastport, Maine.
 3 " " *Boltonia* " " "
 6 " " *Molgol* " " "
 2 " " *Ascidia* " " "
 J. J. CROOKE, Staten Island, N. Y.
 A number of Corals from various localities.
 DR. A. HRDLÍČKA, New York City.
 1 Specimen of *Squilla empusa* Say, from Pelham Bay, N. Y.
 REV. R. P. POST, Elizabeth, N. J.
 2 Specimens of *Mellita testudinata* Kl., from St. John's Bay, Florida.

H. I. SMITH, New York City.

- 7 Specimens of Crabs from Fort Rupert, B. C.
- 2 " " Isopoda from Fort Rupert, B. C.
- 1 " " Starfish " " " "

INGLIS STUART, New York City.

- 1 Large specimen of *Gorgonia acerosa* Pallas.

PROF. R. P. WHITFIELD, New York City.

- 49 Specimens of Echinoderms.
- 4 " " Sea Anemones.
- 10 " " " " Cucumber.
- 18 " " Crabs.
- 13 " " Sea Rods.
- 5 " " Conchs.
- 2 " " Conch animals.
- 6 " " Shells with animals.
- 14 " " Corals.
- 24 " " Sponges.
- 2 Jars of Starfish.
- 8 Groups of Annelids. All from the Bahamas.

DEPARTMENT OF VERTEBRATE ZOÖLOGY.

MAMMALS.

BY DONATION.

ANASTASIO ALFARO, San José, Costa Rica.

- 11 Small Mammals from Guatemala, and 3 from Cocos Island.

JAMES ANGUS, West Farms, N. Y.

- 1 Dog.

J. H. BATTY, Sheepshead Bay, N. Y.

- 1 South American Deer, and 5 small Mammals, from Colombia.

MRS. H. BURNETT, New York City.

- 1 Cat.

MRS. W. T. COLBURN, New York City.

- 3 Squirrels and 1 Bat, mounted.

JAMES M. CONSTABLE, New York City.

- 3 Caribou, 3 Mountain Sheep, 1 Fox, and 10 small Mammals, from Arctic America.

C. E. COOK, Hastings, N. Y.

- 1 Opossum.

CHARLES B. CORY, Boston, Mass.

- 5 Small Mammals from Arizona.

JOHN L. COX, Philadelphia, Pa.

- 1 Lynx, and 4 Voles, from Newfoundland.

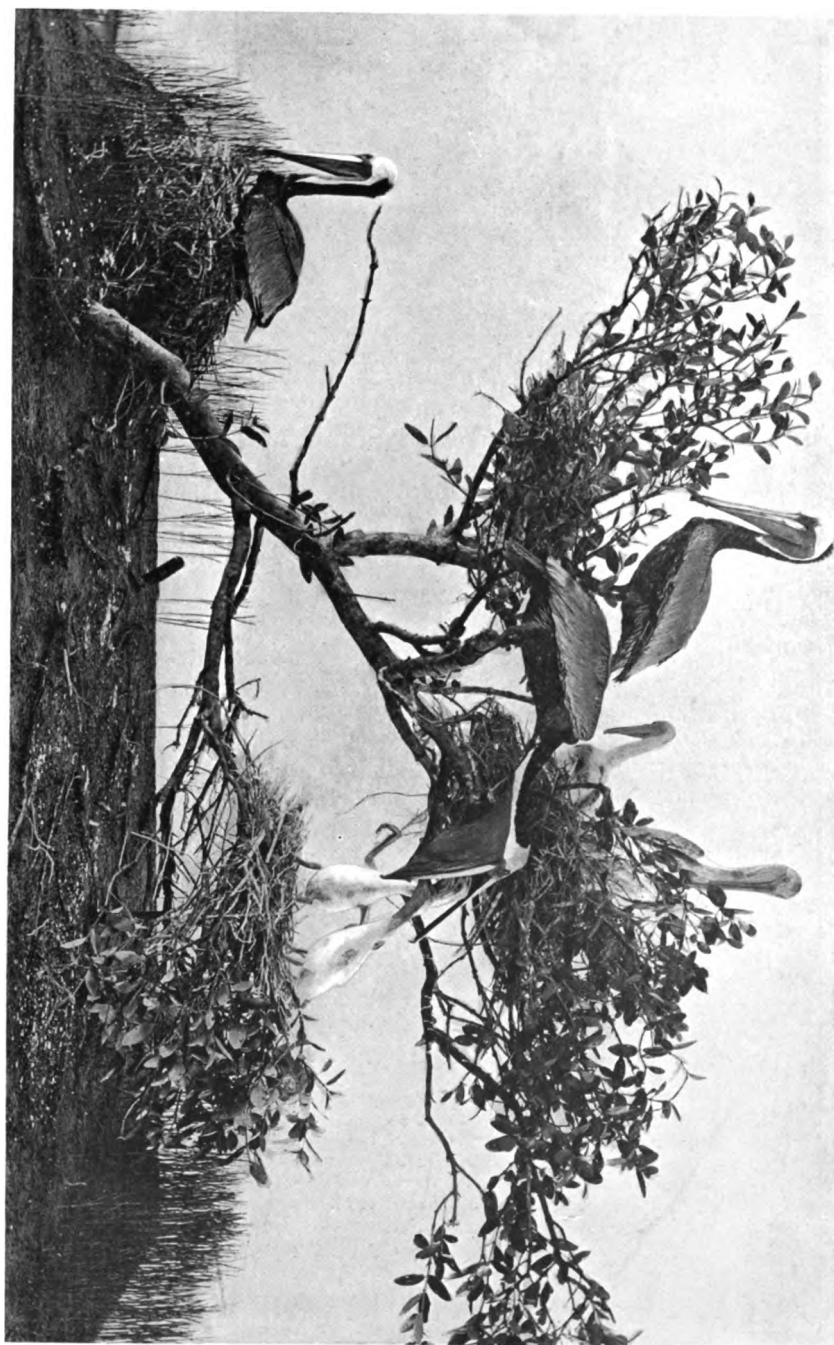
DEPARTMENT OF PUBLIC PARKS, New York City.

- 7 Monkeys, 1 Lioness, 1 Fox, 1 Coyote, 1 West Indian Seal, 1 Bear, 1 Cape Buffalo (calf), 4 Nylghaus, 4 Zebus, 3 Indian Antelopes, 3 Deer, 1 Hippopotamus (calf), 2 Porcupines, 1 Agouti, 3 Opossums.—Total, 34 specimens, received in the flesh from the Central Park Menagerie and the New York Aquarium.

C. A. DEYO, Schoharie, N. Y.

- 1 Mole, 1 Woodchuck, 1 Weasel.

- WALTER DORMITZER, New York City.
1 Hippopotamus skull.
- J. D. FIGGINS, New York City.
1 Bay Lynx.
- MRS. MARY C. FRANKLYN, New York City.
1 Spaniel.
- MISS HELEN M. GOULD, New York City.
1 Weasel, from Westchester Co., N. Y.
- W. W. GRANGER, New York City.
1 skull of Domestic Sheep, 4 small Mammals, from Spring Creek,
North Dakota, 8 small Mammals, from Aurora, Wyoming.
- E. S. HATHAWAY, Missoula, Montana.
1 Rocky Mountain Goat.
- DR. A. HRDLICKA, New York City.
1 Skull of Dog.
- MORRIS K. JESUP, New York City.
1 Collie Dog, 598 Mammals, from Santa Marta, Colombia.
- DR. E. A. MEARNS, U.S.A., Fort Adams, Newport, R. I.
6 Small Mammals from Newport, R. I.
- NEW YORK ZOÖLOGICAL SOCIETY.
2 Pronghorn Antelopes, 1 Otter, 1 Siberian Wolf.
- PEARY ARCTIC CLUB, New York City.
11 Musk Ox skins, 1 Musk Ox head, and 7 Musk Ox skulls, 2 Polar
Bear skins and 3 skulls, 1 Walrus head. Collected by Lieut. R.
E. Peary in Northern Greenland.
- COL. NICOLAS PIKE, New York City.
9 Small Mammals from Long Island, N. Y.
- THOMAS PURDY, Harrison, N. Y.
1 Fox.
- JOHN ROWLEY, New York City.
1 Raccoon, 1 Squirrel.
- M. H. SAVILLE, New York City.
1 Monkey, from Mexico.
- FREDERICK A. SCHNEIDER, New York City.
6 Shrews and 3 Field Mice, from Jamaica, Long Island, N. Y., and 4
small Mammals from Wyoming.
- ERNEST SETON-THOMPSON, New York City.
9 Small Mammals from Montana and California.
- HARLAN I. SMITH, New York City.
1 skeleton of a Skunk, and skulls of Badger and Sewellel, from British
Columbia.
- C. DUBOIS WAGSTAFF, New York City.
1 mounted Grizzly Bear.
- WILLIAM WALLACE, New York City.
1 Donkey, 1 Newfoundland Dog.
- MRS. H. WILLIAMS, New York City.
1 Marmoset.
- CLARENCE C. YOUNG, Brooklyn, N. Y.
3 Small Mammals from Dutch Guiana.



BROWN PELICAN GROUP



DUCK HAWK GROUP

BY EXCHANGE.

35 Specimens, mostly small Mammals, from California and Mexico.

BY PURCHASE.

1 Koodoo Antelope, 1 Sable Antelope, 86 small Mammals from Alberta, 77 from Venezuela, 59 from Labrador and Magdalen Islands, 51 from Florida and Mexico, 17 from Texas.

BIRDS.

BY DONATION.

ANASTASIO ALFARO, San José, Costa Rica.

1 Petrel from Cocos Island, 23 small Birds from Guatemala.

MRS. C. B. BAKER, New York City.

1 African Finch.

HERBERT BROWN, Yuma, Arizona.

1 Tern, from Arizona.

FRANK M. CHAPMAN, Englewood, N. J.

1 Tanager, 1 Cedarbird.

MRS. W. T. COLBORN, New York City.

50 Mounted birds, 80 bird skins.

JOHN L. COX, Philadelphia, Pa.

9 Bird skins from Newfoundland.

JOHN J. CROOK, Staten Island, N. Y.

Collection of birds' eggs, representing 51 species.

MRS. C. W. CROSSMAN, Alexandria Bay, N. Y.

1 Finch.

DEPARTMENT OF PUBLIC PARKS, New York City.

1 Robin, 1 Finch, 1 Blackbird, 2 Bobolinks, 9 Parrots, 6 Eagles, 1 Hawk, 1 Buzzard, 4 Pheasants, 2 Turkeys, 1 Rail, 1 Heron, 1 Duck, 7 Swans, 2 Cassowaries.—Total, 40 specimens received in the flesh from the Central Park Menagerie.

GEN. J. W. DE PUYSTER, New York City.

5 Sections of pear trees, showing perforations by Woodpeckers.

G. F. DIPPIE, Toronto, Canada.

3 Redpolls.

WILLIAM DUTCHER, New York City.

113 Small birds, 1 Duck, 1 Murre.

WILLIAM DUTCHER, through Linnæan Society of New York.

4 Rare birds from Long Island, N. Y.

JONATHAN DWIGHT, Jr., M.D., New York City.

1 Black-headed Shrike.

MISS ALLIDA EHLERS, Rhinebeck, N. Y.

1 Baltimore Oriole's nest.

JOHN FITZE, New York City.

1 Swift, 1 Thrush.

S. N. H. GALLAND, New York City.

1 Bishop Weaver-Bird.

W. W. HARRISON, New York City.

1 Hawk.

- MORRIS K. JESUP, New York City.
2124 Specimens, from Santa Marta, Colombia.
- S. A. KROM, Plainfield, N. J.
1 Grebe.
- H. C. LEUTLOFF, New York City.
1 Nonpareil, taken on Long Island, N. Y.
- H. R. MOLLER, South Orange, N. J.
6 Photographs of Oriole's nests.
- C. W. NASH, Toronto, Canada.
1 Nelson's Sparrow.
- ALBERT NEWMAN, Canandaigua, N. Y.
1 Crow.
- NEW YORK ZOÖLOGICAL SOCIETY.
1 Hawk.
- M. NULTY, New York City.
1 Thrush.
- WILLIAM PALMER, Washington, D. C.
1 Hooded Warbler.
- PEARY ARCTIC CLUB, New York City.
4 Ivory Gulls from Greenland.
- REV. R. B. POST, Fort George, Florida.
6 Water Birds from Florida.
- H. J. ROSENBERG, Eastport, N. Y.
1 Pheasant.
- JOHN ROWLEY, New York City.
65 Small birds for the local collection.
- REV. S. H. SCHWAB, New York City.
Nest of Wren and Baltimore Oriole.
- L. C. SEYMOUR, New York City.
1 Starling.
- HARLAN I. SMITH, New York City.
1 Osprey, from British Columbia.
- HARRY B. STANTON, Atlanta, Georgia.
1 Nest of Gnatcatcher.
- C. TRAVIS, Ardsley, N. Y.
1 Osprey.
- MISS A. L. TULLY, New York City.
Peculiar nest of House Sparrow.
- ARTHUR T. WAYNE, Mount Pleasant, S. C.
3 Small birds from South Carolina.
- JOHN H. WINSER, New York City.
1 Oriole.
- HON. JOHN A. WISE, New York City.
1 Barn Owl.

BY EXCHANGE.

39 Specimens, from various localities.

BY PURCHASE.

450 Specimens, from Venezuela and Western Colombia.

FISHES AND REPTILES.

BY DONATION.

- DR. E. W. CULVER, New York City.
1 Mounted Sail-fish.
- DEPARTMENT OF PUBLIC PARKS, New York City.
1 Alligator, 1 Cowfish. Received in the flesh from the Central Park Menagerie and the New York Aquarium.
- MISS A. GUNTHER, New York City.
1 Salamander.
- MARK W. HARRINGTON, Mount Vernon, N. Y.
1 "Hen-fish," from San Juan, Puerto Rico.
- MRS. J. G. K——, New York City.
1 Horned Toad from California.
- O. C. KANZOU, New York City.
2 Snakes from Costa Rica.
- MISS A. KENNEDY, New York City.
1 Salamander.
- NEW YORK ZOÖLOGICAL SOCIETY, New York City.
1 Leather-back Turtle, 1 Python.
- COL. NICOLAS PIKE, New York City.
Collection of Reptiles and Batrachians (about 1300), and a few Fishes, chiefly from Long Island, N. Y.
- FRANK PLUMEJEAU and JOHN L. FIGUERA, New York City.
Blade of Australian Sawfish.
- FREDERICK SCHNEIDER, New York City.
7 Reptiles from Aurora, Wyoming.
- H. E. SPALDING, Cambridge, Mass.
1 Trout.
- GEORGE V. WAKEMAN, New York City.
1 Large Pickerel from Lake George, N. Y.
- WILLIAM WALLACE, New York City.
1 Dogfish.
- PROF. R. P. WHITFIELD, New York City.
2 Sea Eels from Nassau, Bahama Islands.

BY PURCHASE.

- 1 Mounted Tortoise-shell Turtle from Bermuda Islands.

DEPARTMENT OF ENTOMOLOGY.

BY DONATION.

- VERY REV. E. A. HOFFMAN, D.D., LL.D., New York City.
300 Indian and American Butterflies.
- R. P. WHITFIELD, New York City.
1 Large Termite's nest from Nassau, Bahama Islands.
- HENRY F. OSBORN, New York City, through South American Exploration Co.
2 Ants' nests from U. S. Colombia.
- F. W. PUTNAM, through South American Exploration Co.
2 Ants' nests from U. S. Colombia.

- JOSEPH W. EDWARDS, New York City, through South American Exploration Co.
2 Ants' nests from U. S. Colombia.
- VARIAN BANKS, New York City, through South American Exploration Co.
2 Ants' nests from U. S. Colombia.
- JAMES RICALTON, New York City.
1 *Belostoma* from Manila.
- W. P. COMSTOCK, New York City.
2 *Pamphila manataaqua*.
- E. G. LOVE, New York City.
4 *Pamphila panoquin*, 2 *Ommatostola lintneri*, 2 *Necrophorus vespilloides*.
- MRS. J. W. KEYES, New York City.
1 Centipede from California.
- E. MENKE, Chicago, Ill.
A number of Diptera from Wyoming.
- GEORGE W. PEPPER, Tottenville, New York City.
A number of Moths from New Mexico.
- NICHOLAS PIKE, New York City.
A collection of Spiders.
- C. PALM, New York City.
6 Beetles.
- L. H. JOUTEL, New York City.
Specimens of wood injured by white ants.
- MRS. A. T. SLOSSON, New York City.
2 New species of *Sesia* from Florida.
- P. JEROME SCHMITT, Beatty, Pa.
A collection of Scydmaenidæ and Pselaphidæ.
- JULIUS MEITZEN, Brooklyn.
A number of beetles from the West.

BY PURCHASE.

About 600 specimens of Beetles and Moths.

DEPARTMENT OF VERTEBRATE PALÆONTOLOGY.

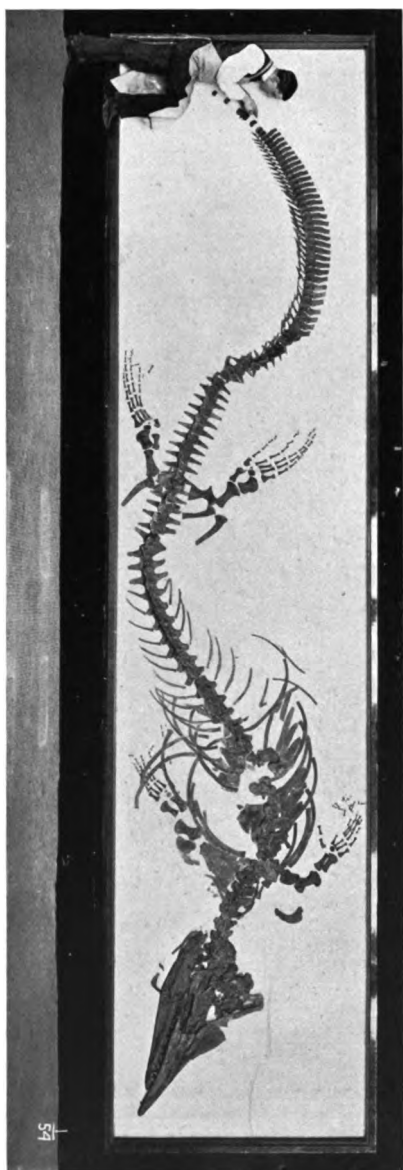
THROUGH MUSEUM EXPEDITIONS.

In Jurassic Fossil Beds of Wyoming.

- 131 Specimens of Dinosaurs—parts of skulls and skeletons, limbs or separate bones—from Bone Cabin Quarry. Some of these are more complete than any previously found at this locality, others represent genera and species new to our collections.
- 1 Specimen of *Brontosaurus*, including more than half the skeleton, from the Nine Mile Quarry. This Dinosaur was of the largest size, and the bones are very finely preserved.
- Part of the skeleton of a Crocodile from the Nine Mile Quarry.
- Part of the skeleton of an Ichthyosaur from the marine strata near Bone Cabin Quarry.

In Tertiary Fossil Beds of Texas.

- 13 Specimens from the Upper Miocene beds of the Staked Plains, including a fine skull and large part of the skeleton of a Primitive Mastodon with four tusks.



SKELETON OF LARGE MOSASAUR OR MARINE LIZARD
Thirty feet long, mounted exactly as discovered in Cretaceous chalk. Placed in Marine Reptile Corridor. 1899



SABRE-TOOTH TIGER FROM SOUTH DAKOTA

Absolutely perfect fossilized skeleton, mounted in such a way that every bone can be removed for purposes of study. 1899

- 28 Specimens from the Pleistocene beds of the Staked Plains, including five more or less complete skeletons of the Fossil Horse and a fore limb of the Mammoth.

RECEIVED IN EXCHANGE FOR DUPLICATES OR CASTS SENT OUT FROM THE
AMERICAN MUSEUM.

- From Royal Saxon Geological Survey, Leipsic, through Dr. H. Credner, 29 skeletons showing all stages of the development of the Primitive Amphibian *Branchiosaurus*. This is a valuable series, and of great scientific interest.
- From Museum of the Kingdom of Bohemia, Prague, through Dr. Anton Fritsch, casts of twenty fossil vertebrates in the Prague Museum.
- From Museum of Natural History, Lyons, France, through Dr. E. Lortet, casts of three and original specimens of ten species of fossil mammals from the Miocene beds of France.
- From Museum of Palæontology, Paris, France, through Prof. A. Gaudry, casts of five specimens of fossil mammals in the Paris Museum.
- From the Museum of University of Lyons, through Prof. C. Depéret, 47 specimens of fossil mammals from the Eocene and later strata of France.
- From Royal Bavarian Museum, Munich, Saxony, through Prof. K. von Zittel, casts of seven specimens of fossil vertebrates in the Munich Museum.

COLLECTIONS SENT OUT IN EXCHANGE TO FOREIGN MUSEUMS.

- To Royal Saxon Geological Survey, Leipsic, 17 specimens of American fossil mammals, mostly from the Eocene of the West.
- To Natural History Museum of Lyons, France, 14 specimens of American fossil mammals and a colored model of the Duck-Billed Dinosaur.

DEPARTMENT OF ANTHROPOLOGY.

BY DONATION.

- CAPT. STANLEY AMSBURY, through Warren G. F. Slover, of New York City.
1 hat and 2 rain-coats from Japan.
- MISS C. P. ARNOLD, New York City.
A spinning-wheel.
- DR. A. N. BROCKWAY, New York City.
A Dakota Indian shirt.
- MRS. JOHN CROSBY BROWN, New York City.
A rattle from Japan and a Zulu shield.
- MRS. H. M. CONVERSE, New York City.
1 Bark bowl (Iroquois), 1 basket (Klamath).
- MRS. SALLY MORRIS CORY, New York City.
Opium-smoker's outfit from China.
- G. W. COTTERRILL, New York City.
Archæological specimens and human skeletons from Santa Catalina Island, California.
- MRS. F. L. CROSS, Redlands, Cal.
4 Indian baskets from California.

- J. DORENBERG, Leipzig, Germany.
2 Aztec silver bells from the Valley of Mexico.
- W. J. ELLIOT, New York City.
Pots sherds and argillite points from Pelham Park, N. Y.
- LIEUT. G. T. EMMONS, Princeton, N. J.
1 dice and counters (Tlingit), 1 labret (Eskimo) from Alaska.
- FRANCIS E. FOSHAY, New York City.
1 Spear-head and a broken banner-stone from Yorktown Heights, Westchester Co., N. Y.
- MRS. ESTHER HERRMAN, New York City.
3 bone implements and chips of chalcedony, dredged from the Alafia River, Florida.
- W. L. HILDBURGH, New York City.
11 photographs of archæological specimens from New York State, an Indian mortar from Canandaigua, Cayuga Co., N. Y.
- DR. A. HRDLICKA, New York City.
1 painted skin robe of the Utes of Southern Colorado.
- C. P. HUNTINGTON, New York City.
Collection of pottery, garments, and utensils, from the Southwestern Pueblos.
- THE DUKE OF LOUBAT, New York City.
Casts (made from Peabody Museum moulds) of altars and stelæ from Copan and Quirigua, of detached sculptures and hieroglyphic steps from Copan, and of bas-reliefs from Chichen Itza, Yucatan, and from Seibal, Guatemala; 2 copies on cloth of ancient Mexican picture-writing (called Lienzo de Zacatepec and Lienzo de Coixtlahuaca-Oaxaca) from the State of Oaxaca (originals in the Ethnographical Museum, Berlin); copy of a reproduction of the pre-Columbian Nahuatl Codex Cospiano, formerly known as the Bologna (original in Bologna); copy of the pre-Columbian Nahuatl Codex Borgiano (original in Rome); copy of the post-Columbian Nahuatl Codex Telleriano Remensis (original in Paris); collection of archæological specimens from the States of Jalisco and Michoacan, Mexico, and from the Republic of Guatemala, collected by Dr. Eduard Seler.
- M. MARIANI, Paris, France.
Cast of a "poporo" or gourd for coca lime, from Colombia, S. A.
- H. R. MOLLER, South Orange, N. J.
12 photographs of hammocks (taken from valuable specimens in Museum of the Peabody Academy of Science, Salem, Mass.)
- DR. GEORGE W. NASH, Kingsbridge, N. Y.
Piece of grass-cloth from the Congo.
- PEARY ARCTIC CLUB, New York City.
Infant's clothing from Smith Sound, Eskimo remains found in Ellesmere Land.
- MRS. HARLAN I. SMITH, New York City.
Speaker's staff from Fort Rupert, B. C., painted box from Nimpkish River, B. C.
- HARLAN I. SMITH, New York City.
Mortar and pestle of the Ojibwa Indians, several skeletons of Indians from near Saginaw, Mich.

SOUTH AMERICAN EXPLORATION COMPANY, New York City.

Terra-cotta figures, vessels and fragments, 3 gold ear ornaments, and various objects of bone and stone. Collected by F. C. Nicholas in Colombia, S. A., and presented by Mr. James L. Truslow.

Archæological specimens from Colombia, S. A., and from Costa Rica. All collected by F. C. Nicholas, and presented by stockholders of the South American Exploration Company.

DR. ROLAND STEINER, Grovetown, Ga.

Fragments of soapstone pots and other objects of soapstone from an Indian quarry at Grovetown, Ga.

MR. NEWTON STOKES.

Desiccated and ornamented human head from the Upper Amazon River.

L. M. TURNER, New York City.

Small axe of green stone from Porto Rico.

FELIX VON LUSCHAN, Berlin, Germany.

2 Drains for infants' cradles from Kurds, Asia Minor.

WILLIAM WALLACE, New York City.

3 Stone arrow-points from Schoharie, N. Y.

HAROLD WARNER, New York City.

Eskimo boot.

THOMAS H. WHELESS, Austin, Tex.

"Mano" from east of Cetatlan, Guerrero, Mex.

FROM MUSEUM EXPEDITIONS.

Directed by the Department of Anthropology.

THE JESUP NORTH PACIFIC EXPEDITION. Provided for by Morris K. Jesup.

A collection of implements and utensils from the Eskimo of Alaska. Collected by Miner Bruce.

Specimens from Kenai. Collected by Lieut. G. T. Emmons.

A collection illustrating the ceremonials and industries of the Indians of Fort Rupert, B. C. Collected by George Hunt.

Specimens from the Shushitna River, Alaska. Collected by A. Beverly Smith.

Archæological collections from the shell mounds of the State of Washington; ethnological specimens from the State of Washington; archæological collections from the cairns and shell mounds of southern Vancouver Island; archæological and ethnological collections from Lillooet, B. C.; archæological collection from Nicola Valley, B. C. Collected by Harlan I. Smith.

Ethnological collection from Lillooet and Thompson River, B. C. Collected by James Teit.

THE HYDE SOUTHWESTERN EXPEDITION. Provided for by B. Talbot B. Hyde and F. E. Hyde, Jr.

A large collection of archæological objects and skeletons from the prehistoric Pueblo Bonito and other ruins and burial-places in New Mexico, and many photographs showing excavations and objects as found; casts and photographs of Navajo, Ute, and Apache Indians; also an extensive collection of prehistoric objects from burial-caves in the Grand Gulch region of southwestern Utah. Collected by F. E. Hyde, Jr., G. H. Pepper, Richard Wetherill, Ales Hrdlicka, Richard Dodge, F. W. Putnam.

EXPLORATIONS IN THE DELAWARE VALLEY. Provided for by Dr. F. E. Hyde.

Human skeletons and various implements, pottery, etc., from ancient village sites and burial-places; implements from the gravel deposits at Trenton, N. J.; bone of a musk-ox, and piece of a human femur from the glacial gravel, and a fragment of a human skull from the talus; photographs, drawings, and manuscript report of explorations. Collected and reported by Ernest Volk.

HUNTINGTON CALIFORNIA EXPEDITION. Provided for by C. P. Huntington.

A collection of basketry, utensils, and ornaments from the Indians of northern California; also photographs and plaster casts of Indians. Collected by Roland B. Dixon.

JESUP ARAPAHO EXPEDITION. Provided for by Mrs. Morris K. Jesup. Specimens illustrating the industries and ceremonials and art of the Arapaho Indians of Indian Territory. Collected by Alfred L. Kroeber.**MEXICAN EXPEDITION.** Indian costume from Tehuantepec, and archaeological specimens from the Valley of Mexico. Collected by Marshall H. Saville.**ARCHÆOLOGICAL EXPLORATION AT PELHAM BAY, NEW YORK.** Provided for by Theodore Cooper, New York City.

Indian skeletons, pottery, stone implements, animal bones, and various other objects found in the exploration of an Indian village site and burial-place in Pelham Park. Collected by Raymond Harrington.

ARCHÆOLOGICAL EXPLORATIONS IN THE STATE OF NEW YORK. Provided for by William R. Warren, New York City.

Indian skeletons, pottery, stone implements, and various objects of Indian make, with a clay pipe and other objects obtained by the Indians from the early settlers, found during the exploration of an Indian burial-place at Croton Neck. Collected by Raymond Harrington.

Stone implements, potsherds, and animal bones from an exploration of an Indian site in Schoharie County. Collected by M. H. Saville.

Stone implements, potsherds, bone implements, and other specimens from several shell-heaps and Indian village sites in Westchester and Rockland Counties and on Long Island. Collected by Raymond Harrington.

BY EXCHANGE.**BRITISH MUSEUM.**

Swords and knives from the Upper Congo.

Mrs. JOHN CROSBY BROWN, New York City.

Musical instrument from New Britain; paddle, shields, and mask from New Guinea; mask from British Columbia.

Mrs. S. S. FRISHMUTH, Philadelphia, Pa.

Musical instruments from Japan.

U. S. NATIONAL MUSEUM, Washington, D. C.

Ethnological specimens from the Alaskan Eskimo; 1 medicine pouch of Sioux Indians.

P. B. RANDOLPH, State of Washington.

Bowl and 2 potsherds from the Yukon Valley.

PEABODY MUSEUM, Harvard University, Cambridge, Mass.

Ancient hat from Nootka Sound Indians; cast of two-handed poi paddle from Hawaii; archaeological specimens from Bristol, Conn.

BY PURCHASE.

Model of a catamaran, clothing of Alaskan Indians.

4600 leaf-shaped flints and a large copper axe and other specimens from a mound cache on Bæhr Farm, Brown Co., Ill. Collected by Dr. J. F. Snyder, of Virginia, Ill.

A general collection illustrating the costumes, implements, and weapons of the Eskimo of Chesterfield Inlet and Wager River, west coast of Hudson Bay and of Southampton Island; also a number of specimens from Boothia Felix, Fury and Hecla Strait, and from Savage Island. Collected by Capt. George Comer, of East Haddam, Conn.

Iroquois masks, wands, and wampum, and a stone pipe. Collected by Mrs. H. M. Converse, of New York City.

Photographs of antiquities from Colombia, S. A., including the large collection of gold ornaments exhibited at the World's Fair of 1893.

Eskimo suit from South Greenland.

Ethnological specimens from the Blackfeet Indians. Collected by George Bird Grinnell, of New York City.

Archæological specimens from the State of Chiapas, Mex.

Grooved stone axe from three miles south of Milwaukee.

Necklace from Boruca tribe, Costa Rica. Collected by Dr. Ph. J. J. Valentini.

Sugar-making apparatus of Ojibwa Indians. Collected by F. W. Waugh, of Toronto, Can.

Mummy of a child, three skulls, and a few ornaments found in grave at Pacasmayo, Peru. Collected by Gabriel Weil, of New York City.

INCORPORATION.

AN ACT

TO INCORPORATE THE

AMERICAN MUSEUM OF NATURAL HISTORY,

Passed April 6, 1869.

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

SECTION 1. John David Wolfe, Robert Colgate, Benjamin H. Field, Robert L. Stuart, Adrian Iselin, Benjamin B. Sherman, William A. Haines, Theodore Roosevelt, Howard Potter, William T. Blodgett, Morris K. Jesup, D. Jackson Steward, J. Pierpont Morgan, A. G. P. Dodge, Charles A. Dana, Joseph H. Choate, and Henry Parish, and such persons as may hereafter become members of the Corporation hereby created, are hereby created a body corporate, by the name of "The American Museum of Natural History," to be located in the City of New York, for the purpose of establishing and maintaining in said city a Museum and Library of Natural History; of encouraging and developing the study of Natural Science; of advancing the general knowledge of kindred subjects, and to that end of furnishing popular instruction and recreation.

SEC. 2. Said Corporation shall have power to make and adopt a Constitution and By-Laws, and to make rules and regulations for the admission, suspension, and expulsion of its members, and their government, the number and election of its officers, and to define their duties, and for the safe keeping of its property, and, from time to time, to alter and modify such Constitution, By-Laws, Rules and Regulations. Until an election shall be held pursuant to such Constitution and By-Laws, the persons named

in the first section of this Act shall be, and are hereby declared to be, the Trustees and Managers of said Corporation and its property.

SEC. 3. Said Corporation may take and hold by gift, devise, bequest, purchase, or lease, either absolutely or in trust, for any purpose comprised in the objects of the Corporation, any real or personal estate, necessary or proper for the purposes of its incorporation.¹

SEC. 4. Said Corporation shall possess the general powers, and be subject to the restrictions and liabilities, prescribed in the Third Title of the Eighteenth Chapter of the First Part of the Revised Statutes.

SEC. 5. This Act shall take effect immediately.

STATE OF NEW YORK, }
OFFICE OF THE SECRETARY OF STATE. } ss.:

I have compared the preceding with the original law on file in this office, and do hereby certify that the same is a correct transcript therefrom, and of the whole of said original law.

[L. s.] Given under my hand and seal of Office at the City of Albany,
this fourteenth day of April, in the year one thousand eight
hundred and sixty-nine.

D. WILLERS, Jr., *Deputy Secretary of State.*

¹ As amended by Chapter 303, Laws of 1898, of the State of New York, entitled "An Act to amend chapter one hundred and nineteen, laws of eighteen hundred and sixty-nine, entitled 'An Act to incorporate the American Museum of Natural History,' relative to its charter."

CONSTITUTION
OF THE
AMERICAN MUSEUM OF NATURAL HISTORY,
IN THE CITY OF NEW YORK.

ARTICLE I.

This Corporation shall be styled the AMERICAN MUSEUM OF NATURAL HISTORY.

ARTICLE II.

The several persons named in the charter, and such others as they may add to their number, which shall not exceed twenty-five in all at one time, shall be the Trustees to manage the affairs, property, and business of the Corporation, and in case of the death or accepted resignation of any Trustee, a new Trustee shall be elected to fill his place by the remaining Trustees; but no election of a Trustee shall be held except at a quarterly meeting of the Trustees, on written notice of not less than one week, specifying that such election is to be held, and the vacancy which is to be filled; and every election of Trustees shall be by ballot, and no person shall be deemed to be elected a Trustee unless he shall receive the votes of at least three-fourths of the Trustees present.

ARTICLE III.

The Trustees shall meet quarterly, on the second Monday of every February, May, August and November, at an hour and place to be designated, on at least one week's written notice from the Secretary, and shall annually, at the quarterly meeting in February, elect the officers and committees for the ensuing year. They shall also meet at any other time to transact special business on a call of the Secretary, who shall issue such call whenever

requested so to do, in writing, by five Trustees, or by the President, and give written notice to each Trustee of such special meeting, and of the object thereof, at least three days before the meeting is held.

ARTICLE IV.

SECTION 1. The officers of said Corporation shall be a President, a First Vice-President, a Second Vice-President, and a Treasurer, all to be elected from the Trustees. These officers shall be elected by ballot, and the persons having a majority of the votes cast shall be deemed duly elected. They shall hold their offices for one year or until their successors shall be elected.

SEC. 2. The Board of Trustees shall appoint each year, in such manner as it may direct, the following Standing Committees: an Executive Committee, an Auditing Committee, a Finance Committee, and a Nominating Committee. These Committees are all to be elected from the Trustees, and the members shall hold office for one year or until their successors shall be elected.

The Board of Trustees shall also have authority to appoint such other committees or officers as they may at any time deem desirable, and to delegate to them such powers as may be necessary.

ARTICLE V.

SECTION 1. The President shall have a general supervision and direction over the affairs of the Corporation, and shall preside at all the meetings of the Museum and of the Trustees. In his absence or inability to act, the First or Second Vice-President shall act in his place.

SEC. 2. The Secretary shall be appointed by the Board of Trustees. He shall be present, unless otherwise ordered by the Board, at all the meetings of the Museum and Trustees, of the Executive Committee and such other Committees as the Board may direct. He shall keep a careful record of the proceedings of such meetings, shall preserve the seal, archives and correspondence of the Museum, shall issue notices for all meetings of the Trustees and various committees, and perform such other duties as the Board may direct.

The Board of Trustees shall have power to appoint an Assistant Secretary, who, under its directions, shall perform the duties of the Secretary in his absence or inability to act.

SEC. 3. The Treasurer shall receive and disburse the funds of the Museum. He shall report in writing, at each quarterly meeting of the Trustees, the balance of money on hand, and the outstanding obligations of the Museum, as far as practicable; and shall make a full report at the Annual Meeting of the receipts and disbursements of the past year, with such suggestions as to the financial management of the Museum as he may deem proper.

SEC. 4. The accounts of the Museum shall be kept at the General Office, in books belonging to it, which shall at all times be open to the inspection of the Trustees.

These accounts shall be under the care of an Assistant Treasurer, who shall be appointed by the Board of Trustees and be under their direction. He shall give such bonds for the faithful performance of his duties as the Board may direct.

SEC. 5. The office of Secretary and of Assistant Treasurer may be held by the same person.

ARTICLE VI.

The Executive Committee shall consist of nine, of whom the President, First and Second Vice-Presidents, and Treasurer shall be four. The five members of the Executive Committee, elected in February, 1887, shall forthwith draw lots for terms of one, two, three, four, and five years, respectively, and the terms for which those drawing the two, three, four, and five years, respectively, were elected, are hereby extended to cover those periods; and hereafter at each annual election one member of the Executive Committee shall be elected to serve for five years. They shall have the control and regulation of the Collections, Library and other property of the Museum; and shall have power to purchase, sell, and exchange specimens and books, to employ agents, to regulate the manner and terms of exhibiting the Museum to the public, and generally to carry out in detail the directions of the Trustees; but the Executive Committee shall not incur any expense or liability for the Museum exceeding two

thousand dollars at one time, or exceeding in all ten thousand dollars, in the interval between the quarterly meetings of the Trustees, without the express sanction of the Trustees. Five members of the Committee shall constitute a quorum for the transaction of business.

ARTICLE VII.

The Auditing Committee shall consist of three Trustees. It shall be their duty to examine and certify all bills presented against the Corporation, and no bills shall be paid unless first approved by the President, or the Chairman of the Executive Committee, in writing, and by at least one member of this Committee.

They shall also have the books of the Museum duly audited at least once in six months by an authorized public accountant to be selected by them.

ARTICLE VIII.

The Finance Committee shall consist of four, including the Treasurer. It shall be their duty to take charge of and invest the funds of the Museum in its name and to take all proper measures to provide means for its support; and they shall have the sole custody of the securities belonging to the invested funds of the Museum, subject to the order of the Board of Trustees.

ARTICLE IX.

The Nominating Committee shall be composed of three, to whom shall be first submitted the name of any person proposed as a candidate for election to membership in the Board of Trustees. The Committee shall report on such candidates from time to time, as they may deem to be for the interest of the Museum.

ARTICLE X.

The President shall be a member, *ex-officio*, of all standing committees.

ARTICLE XI.

Nine Trustees shall constitute a quorum for the transaction of business, but five Trustees meeting may adjourn and transact

current business, subject to the subsequent approval of a meeting at which a quorum shall be present.

ARTICLE XII.

By-Laws may from time to time be made by the Trustees providing for the care and management of the property of the Corporation and for the government of its affairs, and may be amended at any meeting of the Trustees by a vote of a majority of those present, after a month's notice in writing of such proposed amendment.

ARTICLE XIII.

The contribution of \$1000 or more to the funds of the Museum, at any one time, shall entitle the person giving the same to be a Patron of the Museum, who shall have the right in perpetuity to appoint the successor in such patronship.

The contribution of \$500, at one time, shall entitle the person giving the same to be a Fellow, who shall have the right to appoint one successor in such fellowship.

No appointment of a successor shall be valid unless the same shall be in writing, endorsed on the certificate, or by the last will and testament.

The contribution of \$100, at one time, shall entitle the person giving the same to be a Life Member.

Any person may be elected by the Trustees to either of the above degrees, who shall have given to the Museum books or specimens, which shall have been accepted by the Executive Committee, or by the President, to the value of twice the amount in money requisite to his admission to the same degree, and the President and Secretary shall issue diplomas accordingly under the seal of the Museum.

The Trustees may also elect Honorary Fellows of the Museum in their discretion.

ARTICLE XIV.

Any person who has held the office of President for ten or more successive years may be elected by the Trustees as Honorary President for life.

ARTICLE XV.

No alterations shall be made in this Constitution, unless at a regular quarterly meeting of the Trustees ; or at a special meeting called for this purpose, nor by the votes of less than a majority of all the Trustees ; nor without notice in writing of the proposed alteration, embodying the amendment proposed to be made, having been given at a regular meeting.

BY-LAWS.

I.

Patrons, giving \$1000, are each entitled to one Subscriber's Ticket, 5 Complimentary Season Tickets, and 10 Tickets for a single admission.

Fellows, giving \$500, are each entitled to 1 Subscriber's Ticket and 10 Tickets for a single admission.

Life Members, giving \$100, are each entitled to 1 Subscriber's Ticket, and 5 Tickets for a single admission.

Annual Members, paying \$10 yearly, are each entitled to 1 Subscriber's Ticket, and 2 Tickets for a single admission.

[NOTE.—A Subscriber's Ticket admits two persons to the Museum on reserve days (Mondays and Tuesdays), and to all Receptions and Special Exhibitions, and may be used by any member of the Subscriber's family.

The Single Admission Tickets admit the bearers to the Museum on reserve days (Mondays and Tuesdays), and are issued to Subscribers for distribution among friends and visitors.]

II.

Any Trustee who shall fail to attend three consecutive Regular Quarterly Meetings of the Board shall cease to be a Trustee, unless excused by the Board.

III.

No gentleman shall hereafter be eligible to the position of a Trustee who shall not be a "Patron" of the Museum, unless by a unanimous vote of a quorum of the Board—excepting Trustees *ex-officio*—nor be eligible unless his name shall be presented by the Nominating Committee at a Regular Quarterly Meeting prior to the meeting at which said election shall take place.

IV.

No indebtedness (other than for current expenses) shall be incurred by any committee, officer or employee of the Museum, except as provided for in the Constitution. Any desired additional expenditure shall first receive the approval of the Board of Trustees.

V.

If any Trustee shall accept a salary from this Corporation he shall thereby be disqualified for the time being from acting as a Trustee thereof; provided, that the Board of Trustees shall have power to suspend the operation of this law in any special case.

VI.

Any vacancies occurring in the membership of the several committees during the interval between the regular meetings of the Board of Trustees may be filled at a regular meeting of the Executive Committee, until the next meeting of the Board.

VII.

All bequests or legacies, not especially designated, shall hereafter be applied to the *Permanent Endowment Fund*, the interest only of which shall be applied to the use of the Museum as the Board shall direct.

VIII.

At such times as it may be impracticable to obtain the services of the members of the Auditing Committee, the members of the Executive Committee may act in their place and stead.

PATRONS.

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 ROBERT L. STUART.*
 Miss C. L. WOLFE.*
 ROBERT COLGATE.*
 FREDERIC W. STEVENS.
 PERCY R. PYNE.*
 JAMES M. CONSTABLE.*
 JOHN B. TREVOR.*
 ADRIAN ISELIN.
 HUGH AUCHINCLOSS.*
 JOSEPH W. DREXEL.*
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 JOHN D. WOLFE.*
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 C. VANDERBILT.*
 J. PIERPONT MORGAN.
 CHARLES LANIER.
 D. JACKSON STEWARD.*
 EDWARD CLARK.*
 A. G. PHELPS DODGE.
 JAMES BROWN.*
 A. T. STEWART.*
 S. WHITNEY PHENIX.*
 BENJAMIN H. FIELD.*
 WILLIAM T. BLODGETT.*
 OLIVER HARRIMAN.
 ROBERT BONNER.*
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 D. O. MILLS.
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 WILLIAM E. DODGE.
 PETER COOPER.*
 WILLIAM H. ASPINWALL.*

B. H. HUTTON.*
 J. TAYLOR JOHNSTON.*
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 I. N. PHELPS.*
 JAMES STOKES.*
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 JOHN J. CROOKE.
 HENRY SELIGMAN.
 RICHARD T. WILSON.
 JOHN E. PARSONS.
 FRANCIS O. MATTHIESSEN.

* Deceased.

A. J. FORBES-LEITH.
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 M. C. D. BORDEN.
 ARCHIBALD ROGERS.
 GEORGE C. COOPER.*
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 APPLETON STURGIS.
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HENRY FAIRFIELD OSBORN.
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 VICTOR CORSE THORNE.
 EDWIN THORNE.
 JOEL WOLFE THORNE.
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D. B. IVISON.
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FRANCIS CHILD NICHOLAS.
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 JOHN KING.*
 JOHN ALSOP KING.
 A. C. KINGSLAND.
 WM. M. KINGSLAND.
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 GEORGE T. KNIGHT.

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 ALEX. H. STEVENS.
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 FRANCIS LYNDE STETSON.

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ADOLPH D. STRAUS.
 ISIDOR STRAUS.
 ANSON PHELPS STOKES.
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* Deceased.

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Abegg, Henry
 Abegg, J. H.
 Abeel, George
 Acker, Franklin
 Adee, Philip H.
 Adler, J., M.D.
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 Aitken, John W.
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Appleton, Daniel
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 Beadleston, Mrs. Wm. H.
 Beaman, Charles C.
 Beckel, Joseph
 Beekman, Gerard
 Beer, Julius
 Beers, M. H.
 Beinecke, B.

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| Bend, George H. | Brookfield, Wm. | Clinch, Edward S. |
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| Bentley, John | Brown, Alfred S. | Coffin, Chas. H. |
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| Bernheimer, Mrs. A. | Brown, W. P. | Cohen, Samuel M. |
| Bernheimer, Charles L. | Browning, Wm. H. | Colgate, Abner W. |
| Bernheimer, Simon | Bruce, S. D. | Colgate, R. R. |
| Berwind, Edward J. | Bryce, William | Collins, Miss Ellen |
| Betts, Frederick H. | Burden, Henry, 2d | Collins, Wm. G. |
| Bien, Julius | Burden, James A. | Compton, A. T. |
| Bier, Sylvan | Burr, Wm. H. | Conger, Henry C. |
| Biglow, Lucius Horatio | Butler, Prescott Hall | Conkling, Rev. Dr. N.W. |
| Bissinger, Philip | Butler, Wm Allen | Constable, Frederick A. |
| Blackman, Louis H. | Byrne, John | Cook, Chas. T. |
| Blagden, George | | Cooke, Henry D. |
| Bliss, George T. | Cabot, Dr. John | Cornell, R. R. |
| Blodgett, Dr. F. J. | Calder, George | Corning, Christopher R. |
| Bloodgood, John H. | Calman, Emil | Coster, C. H. |
| Blossom, Benj. | Calman, Henry L. | Costello, P. C. |
| Blumenstiel, A. | Cammann, H. H. | Crawford, R. L. |
| Blumenthal, Aug. | Campbell, John | Crawford, Thomas |
| Blumgart, Louis | Cannon, H. W. | Crocker, George Aug. |
| Boas, Emil L. | Carter, A. | Cross, Richard J. |
| Boettger, Henry W. | Carter, James C. | Cummings, Richard |
| Bogert, Henry A. | Carter, Walter S. | Currier, G. C. |
| Bogert, Stephen G. | Cassard, William J. | Curtis, Warren |
| Bond, Frank S. | Cavagnaro, John | Cutting, Robt. Fulton |
| Bonn, William B. | Chambers, Frank R. | Cutting, W. Bayard |
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| Boosa, Frederick | Chatillon, George H. | Dalley, Henry |
| Borg, Simon | Chesebrough, Robert A. | Davenport, Ira |
| Boskowitz, L. | Chichester, Chas. F. | Davids, David F. |
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| Bradley, William H. | Clark, Cyrus | Day, Edward G., M.D. |
| Breelin, James H. | Clark, George C. | Day, Henry M. |
| Brett, George P. | Clark, William N. | DeBuys, A. |
| Briesen, Arthur von | Clarke, Charles C. | Decker, Joseph S. |
| Briesen, Frank von | Clarke, George C. | Deeves, Richard |
| Briesen, R. von | Clarke, Thomas B. | Delafield, Maturin L. |
| Bristol, John I. D. | Clarkson, Frederick | Derby, Richard H. |
| Brockway, Fred. J., M.D. | Clausen, George C. | de Forest, Robert W. |
| Brogan, John J. | Cleveland, Treadwell | De Rham, Charles |

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DeKlyn, B. F.	Evans, William T.	Grace, Wm. R.
DeVinne, Theo. L.	Evarts, W. M.	Gracie, J. K.
De Witt, George G.		Green, Horace
Dewitt, William G.	Fahnestock, H. C.	Greenwood, Isaac I.
Dexter, Henry	Fairchild, Charles S.	Greff, Ernest F.
Dickie, E. P.	Fargo, James C.	Gregory, Chas. E.
Dickey, Mrs. Hugh T.	Farnham, Mrs. Horace P.	Guggenheimer, Randolph
Diestel, Wm.	Fatman, Morris	Guindon, Eugene W.
Dieterich, Chas. F.	Ferris, Frank A.	Gulliver, William C.
Dimock, Henry F.	Fischer, B.	Gurnee, W. S.
Dix, Rev. Morgan, D.D.	Fisher, F. R.	
Dodd, S. C. T.	Fisher, Herman C.	Haber, Louis I.
Dodge, Cleveland H.	Flagler, John H.	Hague, James D.
Dodge, George E.	Fletcher, Andrew	Hall, Mrs. John H.
Dodge, Miss Grace H.	Flint, Miss Helena	Halls, William, Jr.
Dodge, Mrs. Wm. E., Jr.	Flower, A. R.	Halsted, Miss Mary M.
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Doughty, Mrs. Alla	Forster, Wm.	Hartley, Marcellus
Dows, Mrs. David, Jr.	Foster, Edward W.	Hasslach, Jacob
Douglass, Alfred	Foster, Scott	Hatch, Henry D.
Drake, John J.	Frankenberg, D.	Hatzel, Frederick H.
Drakenfeld, B. F.	Fraser, Alfred	Havemeyer, J. C.
Draper, Dr. Wm. H.	Frazee, Wm. C.	Haven, J. Woodward
Du Bois, F. N.	Free, C. Lincoln	Haviland, Edwin
Du Bois, Dr. Matthew B.	Freeborn, G. C., M.D.	Hawk, Wm. S.
Du Bois, Miss Katharine	French, S. A.	Hawley, Edwin
Du Bois, William A.	Freygang, George	Hayes, R. Somers
Duncan, John P.	Frissell, A. S.	Haynes, A. E.
Dunham, G. H.	Frothingham, H. P.	Hecksher, John G.
Dunlap, Robert		Hedges, James
	Gadd, Luther G.	Heide, Henry
Edgell, George S.	Gade, W. F.	Heinsheimer, L. A.
Edwards, James M.	Garland, James A.	Heminway, Homer
Eimer, August	Gay, Joseph E.	Hendricks, Edmund
Einstein, David L.	Gerber, E.	Hernsheim, Joseph
Einstein, I. D.	Gibb, John	Heroy, Mrs. James H.
Elder, Mrs. M. A.	Goddard, F. N.	Higbie, Wm. H.
Ellis, John W.	Godfrey, Chas. H.	Higgins, Francis
Ellsworth, Wm. W.	Godkin, Edwin L.	Hill, Geo. H. B.
Ely, Miss Elizabeth L.	Goldschmidt, Geo. B.	Hilyard, George D., Jr.
Eno, Amos F.	Goebel, Lewis S.	Hinchman, Walter
Erbeloh, R.	Goodridge, Mrs. Frederick	Hinman, W. K.
Ettlinger, Louis	Gossler, G. H.	Hinton, J. H., M.D.

Hoadly, George	Judson, Alfred M.	Lewis, Mrs. John V. B.
Hoagland, Mrs. Jos. C.	Kahn, Otto H.	Lewis, Richard V.
Holden, E. B.	Kellogg, L. Lavin	Lewishon, Mrs. Leonard
Holden, E. R.	Kellogg, Mrs. Chas.	Littlefield, Frederick M.
Holly, Henry H.	Kemp, Edward	Livingston, Edward
Holmes, Wm. H.	Kendall, Edward H.	Livingston, Julius I.
Holt, Henry	Kennedy, John S.	Livingston, Wm. S.
Holt, Miss Lydia C.	Kerner, Charles H.	Lloyd, Francis G.
Holt, R. S.	Ketchum, A. P.	Lobenstine, W. C.
Hopkins, George B.	Kevan, William	Lockman, Jacob K.
Horton, Burrett W.	Kilner, S. E.	Loeb, S.
Hoyt, Chas. A.	Kimbel, Henry	Loewi, Valentine
Hoyt, Dr. Ezra P.	King, William F.	Loewy, Benno
Hoyt, Gerald L.	Kingman, Abel Willard	Lord, Benjamin
Hoyt, Samuel N.	Kinnicutt, Dr. F. P.	Lord, Mrs. D. D.
Hubbard, Gen. T. H.	Klatzl, John C.	Louis, Chas. H.
Hunter, Mrs. M. L.	Klenke, William H.	Lounsbery, R. P.
Huntington, A. M.	Knapp, H., M.D.	Low, C. Adolphe
Hüpfel, J. Chr. G.	Knower, Benj.	Ludington, C. H.
Hutton, F. R.	Koch, H. C. F.	Ludlow, James B.
Hyatt, A. M.	Kohlman, Charles	Lueder, A.
Hyde, Clarence M.	Kohn, S. H.	Lummis, Wm.
Hyde, Mrs. Augustus L.	Kohns, L.	Luttgen, Wm.
Hyde, Dr. Frederick E.	Kraus-Boelte, Mrs. Maria	Lydig, David
	Kuttroff, Adolf	
Ireland, John B.	Ladew, Mrs. H. S.	Mack, J. W.
Iselin, Adrian, Jr.	Lagowitz, Miss H. L.	Mackenzie, Duncan E.
Iselin, C. Oliver	Landon, Francis G.	Mackey, Oscar T.
Iselin, Wm. E.	Lange, Dr. F.	Macy, George H.
	Lange, J. D.	Macy, I. Augustus
Jackson, Charles A.	Langeloth, J.	Maitland, Robert L.
Jackson, Geo. T., M.D.	Langmann, G., M.D.	Malcolm, W. L.
Jackson, John B.	Lapham, Lewis H.	Malin, H. E.
Jackson, Wm. H.	Lapham, S. V.	Man, William
Jacobus, John S.	Lathers, Richard	Mansfield, Howard
Jaeger, Francis M.	Lauderdale, J. V., M.D.	Markoe, Dr. Thos. M.
Jaffray, Robert	Lavelle, Rev. Michael J.	Marlor, Henry S.
Janeway, E. G.	Lawrence, Cyrus J.	Marshall, Charles H.
Jaques, George B.	Lawrence, Mrs. Samuel	Martin, W. M.
Jenkins, Wm. L.	Layng, James D.	Mayer, Emil, M.D.
Jeremiah, Mrs. H.	Leaycraft, J. Edgar	McAlpin, C. W.
Jesup, Jas. R.	Legg, George	McAlpin, D. H.
Johnston, T. V., Jr.	Lehman, E.	McAlpin, George L.
Jones, Oliver L.	Leshner, A. L.	McClintock, Emory
Jones, Walter M.		McComb, J. Jennings
		McCready, Mrs. C. A.

McCurdy, Richard A.	Olyphant, R. M.	Raymond, Charles H.
McDonald, John E.	Olyphant, Robert	Read, Wm. A.
McIntyre, Ewen	Oppenheimer, Dr. H. S.	Reilly, James
McKee, Russell W.	Otis, A. Walker	Renwick, Edward S.
McKim, Rev. Haslett, Jr.	Owen, Mrs. Thomas J.	Rhineland, Chas. E.
McLean, George H.	Owens, Wm. W.	Rhoades, J. Hansen
Merrall, William J.		Richard, Auguste
Metcalfe, John T., M.D.	Paddock, Eugene H.	Riker, John L.
Meyer, Thomas C.	Palmer, N. F.	Riker, Samuel
Metz, Herman A.	Palmer, S. S.	Riker, Wm. J.
Middleton, A. D.	Park, Joseph	Robbins, Rowland A.
Mildeberger, Mrs. John	Parker, Forrest H.	Robbins, S. Howland
Milholland, John E.	Parrish, James C.	Roberts, Miss Mary M.
Miller, D. S.	Parsell, Henry V.	Rogers, Henry H.
Miller, Geo. Macculloch	Parsons, Mrs. Edwin	Rogers, Noah C.
Milmine, George	Parsons, W. H.	Roosevelt, Charles H.
Mitchell, Alfred	Patterson, Edward	Roosevelt, Robert B.
Mitchell, Chas. E.	Peabody, Arthur J.	Roosevelt, W. Emlen
Mitchell, Dr. H. W.	Peabody, George Foster	Root, Elihu
Mitchell, John J.	Peck, Charles E.	Rothschild, J.
Moffat, George Barclay	Pell, Frederick A.	Rowland, George
Moller, Peter, Jr.	Pell, John H.	Ruprecht, Philip
Moore, Francis C.	Pellow, Henry E.	Russak, Jacob
Moore, Mrs. W. D.	Penfold, Wm. Hall	
Moore, W. H. H.	Penniman, George H.	Sage, Russell
Morewood, George B.	Pentz, Frank R.	Saltus, J. Sanford
Morgan, George H.	Perry, William A.	Sands, Andrew H.
Morris, Henry Lewis	Peters, Edward McClure	Sands, Daniel C.
Morrison, Edward A.	Peters, Samuel T.	Sands, Mrs. B. Aymer
Morrison, George A.	Peters, W. R.	Sauter, Fred
Moss, John H.	Peterson, Frederick, M.D.	Sayre, Lewis A., M.D.
Muller, Carl	Peterson, Mrs. Wilson	Schaefer, Edward C.
	Phillips, Guy	Schaeffer, Hermann
Navarro, Juan N.	Pickhardt, Carl	Schafer, Samuel N.
Nelson, Frank G.	Pinkus, F. S.	Schafer, Simon
Nelson, Wm.	Platt, Isaac S.	Schefer, Carl
Nichols, George L.	Platt, John R.	Scheitlin, Edward
Nichols, John W. T.	Powel, de Veaux	Schiff, Mortimer L.
Nisbet, William F.	Powell, Wilson M.	Schernikow, Ernest
Nott, Frederick J.	Pray, Joseph M.	Schott, Charles M., Jr.
	Pryer, Charles	Schultze, John S.
	Purdy, Wm. Macneven	Scribner, Mrs. J. Blair
Ogilvie, James H.	Putnam, George L.	Souder, Hewlett
Olcott, E. E.	Putnam, Mrs. Albert E.	See, Mrs. Horace
Olcott, F. P.	Putney, W. B.	Seligman, Isaac N.
Olmstead, Dwight H.	Pyle, Jas. Tolman	Sellew, T. G.

Sennett, George B	Sturges, Henry C.	Van Ingen, Edward H.
Seton, William	Sturgis, F. K.	Van Norden, Warner
Sharp, W. W.	St. John, Wm. M.	Van Norden, Warner M.
Shattuck, A. R.	Sutherland, John L.	Van Santvoord, A.
Sherman, Charles A.	Sutphen, John S.	Van Vleck, Joseph
Sidenberg, Gustavus		Van Winkle, Edgar B.
Sidenberg, Richard	Taber, John R.	Van Winkle, Miss E. S.
Simpson, John Boulton	Tailer, Edward N.	Vandervoort, W. L.
Simpson, John W.	Taintor, C. M.	Veit, Richard C.
Sinclair, John	Taintor, Charles N.	Vredenburgh, Wm H.
Sloan, Samuel	Talcott, James	
Smith, Adon	Talmadge, Henry	Wales, Salem H.
Smith, Charles S.	Tandy, Rev. P. W.	Walker, William I.
Smith, Geo. W.	Taylor, Mrs. Aug. C.	Wallace, Lewis
Smith, James Rufus	Taylor, George	Wallach, Antony
Smith, John Jewell	Taylor, Stevenson	Wardwell, Wm. T.
Smith, Rev. Cornelius B.	Tefft, F. Griswold	Warner, Lucien C.
Smith, William Alex.	Tefft, Wm. E.	Warren, W. R.
Smith, W. Wheeler	Tesla, Nikola	Waterbury, John I.
Smyth, Philip A.	Thomas, T. G., M.D.	Watson, Miss Emily A.
Snow, Elbridge G.	Thomson, Eugene	Weatherbee, Mrs. E. H.
Squibb, Edw. H., M.D.	Thomson, Giraud F.	Weed, Benjamin
Squires, Grant	Thompson, W. Prall	Weed, Geo. E.
Stachelberg, Mrs. M.	Thorne, W. V. S.	Weekes, John A.
Stanton, John	Tierney, Myles	Wehrhane, Chas.
Stanton, J. R.	Tiffany, Louis C.	Wertheim, H. P.
Starin, John H.	Tillinghast, W. H.	Westcott, Robert E.
Stearns, John Noble	Titus, E., Jr.	Wetmore, Dr. John McE.
Stebbins, Jas. H.	Toel, William	Wheelock, Geo. G., M.D.
Steers, Henry	Tonnelé, John L.	Wheelock, Wm. A.
Steinway, Fred. T.	Toothe, William	White, Horace
Stephens, Benjamin	Townsend, R. H. L.	Whitehead, Charles E.
Stern, Benjamin	Townsend, R. W.	Whitehouse, J. Henry
Stewart, Lispenard	Tracy, J. Evarts	Whitney, Alfred R.
Stewart, William R.	Trevor, H. G.	Wicke, William
Stickney, J.	Trevor, Mrs. John B.	Wickes, Edward A.
Stiehl, Gustav H.	Twombly, H. McK.	Wickham, Delos O.
Stone, Edwin		Williams, George G.
Stone, Mason A.	Ullmann, E. S.	Williams, Richard H.
Stone, Mrs. Catherine C		Wills, Charles T.
Stone, Mrs. Georgiana C.	Valentine, Mrs. Lawson	Wills, Wm.
Stone, Sumner R.	Valentine, Wm. A., M.D.	Wilson, George
Storm, Clarence	Van Brunt, Cornelius	Wilson, John
Storm, George	Van Brunt, Hon. C. H.	Wilson, Washington
Stratford, Wm.	Van Emburgh, D. B.	Wing, John D.
Strong, Wm. L.	von Hagen, Hugo	Winthrop, Egerton L.

Deceased Members.

Witherbee, Frank S.	Wright, Benjamin	Zabriskie, Andrew C.
Wood, Mrs. Henry R.	Wright, Miss F. E.	Zickel, S.
Woodward, F. F.	Wurzburger, A.	Zinsser, Aug.
Wormser, Isidor	Young, Edward L.	Zinsser, Wm., Jr.
Wray, Miss Cornelia S.	Youmans, Ephraim M.	Zollikoffer, O. F.

DECEASED ANNUAL MEMBERS,

1899.

Agnew, John T.	Graham, Malcolm	Moir, James
Alexander, Henry M.	Hill, James K.	Stechert, Gustav E.
Appleton, Wm. H.	Hawley, Henry E.	Steers, Edward P.
Bianchi, F.	Hoagland, Joseph C.	Taylor, Peter B.
Collins, Miss M. M.	Kraus, William	Turnure, Lawrence
Daly, Augustin	Livingston, H. T.	Van Pelt, G. S.
Daly, Chas. P.	Mali, Charles	Voorhis, Wm. W. L.
Elliott, George	Mitchill, Mrs. S. L.	Webb, W. H.

In Memoriam.

On the occasion of the Regular Quarterly Meeting of the Trustees of the American Museum of Natural History, held November 13th, 1899, the following minute was unanimously adopted :

Resolved, That the Trustees of the AMERICAN MUSEUM OF NATURAL HISTORY wish to place on lasting record their deep sense of loss in the death of their late associate,

CORNELIUS VANDERBILT,

and their warm appreciation of his high character and great usefulness. He was for twenty-one years a Trustee, and during that time served for eight years as a member of the Executive and Auditing Committees.

Always greatly interested in the work of the Museum he not only contributed largely to its funds, but gave freely of his time and influence to promote its welfare. His calm, wise judgment, his unfailing courtesy, his liberal views, his quick understanding and his personal charm made him an invaluable member of our councils. Always simple, unassuming and deferring to the views of others, his experience, ability and position rendered his aid of large service.

A patriotic citizen, he was interested in everything that tended to the welfare of the country and the city. He gave largely to all civic, philanthropic and Christian causes. He devoted his time and strength to all good things with

conscientious fidelity, which furnished an object lesson of great value. He was a fine type of a high-minded gentleman, holding his large wealth and power for good as a trust for God and for his fellow men. His genial presence will be sadly missed, and his memory will always be held in tender and affectionate regard.

Resolved, That this minute be placed on the Records of the Museum, and a copy be sent to the family of Mr. VANDERBILT.

At the Regular Quarterly Meeting of the Trustees of the American Museum of Natural History, held May 14th, 1900, President Morris K. Jesup reported the death of First Vice-President JAMES M. CONSTABLE.

In announcing Mr. Constable's decease, the President paid the following tribute to his memory :

"It is my sad duty to announce the death of our late colleague, Mr. JAMES M. CONSTABLE. He passed away on Saturday evening last, without suffering and with undimmed faculties up to the time of his death. He died as he had lived.

"We shall keenly feel the loss of his presence with us ; I more than any of his associates here. He was my friend in all that the word stands for ; he was my counselor and my advisor in administering the many and varied details of the work of the Museum ever since my election to the Presidency of this Board.

"Mr. CONSTABLE's interest in the Museum was an active one, frequently leading him to visit the several departments to observe the progress of their work.

"As Chairman of the Executive Committee, he was very punctual in attendance at its meetings, which, with few exceptions, have been held either at his office or his residence.

"Mr. CONSTABLE possessed full knowledge of the lesser as well as the greater details of the Museum's work, and his wisdom, ripe experience and judgment were invaluable to me ; I always felt secure in seeking his counsel in the management of the affairs of the Institution. His death is a personal loss to myself, and I shall miss far more than mere words may express, his gentleness, his

helpful aid, his ever-present courtesy and encouragement. I have caused to be prepared and ask leave to present the following minute : "

On the twelfth day of the present month the American Museum of Natural History sustained a great loss in the death of

JAMES MANSELL CONSTABLE.

Mr. CONSTABLE became a Fellow of the Museum in 1871, and was elected to its Board of Trustees in the following year. He served as a Member of the Executive Committee, and was subsequently chosen its Chairman, which position he filled until his death. Mr. CONSTABLE also held the office of First Vice-President, to which he was elected in 1890.

By the generous financial aid of Mr. CONSTABLE, the first relations of the Museum with the cause of public education were established in 1882, and practically formed the beginning of the present Department of Public Instruction of the Museum.

In the performance of the duties which devolved upon him in his official relations to the Museum, Mr. CONSTABLE manifested the patience, sound judgment, sincerity and gentleness which prominently distinguished his character. He was unselfish in giving his earnest and individual efforts and financial support to everything that would promote and develop the growth of the Museum, and his interest in its work was actively expressed until within a few days of his death.

He valued highly his kind and friendly relations with the Trustees, and his associates felt for him the esteem which his wise counsel and never-failing kindness and courtesy justified.

It is directed that this Minute be placed upon the record of the Meeting ; that a copy of the same be forwarded to his family, and that this Board, as a body, attend his funeral.

On Motion, the Minute was adopted.



**This book is not to be
taken from the Library**

